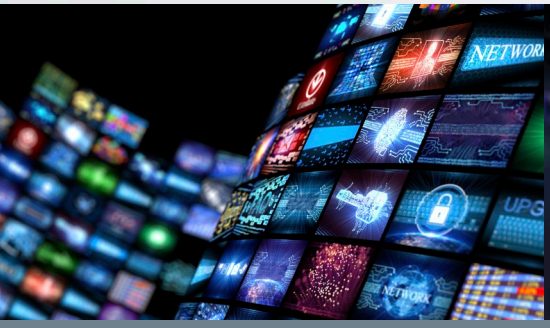
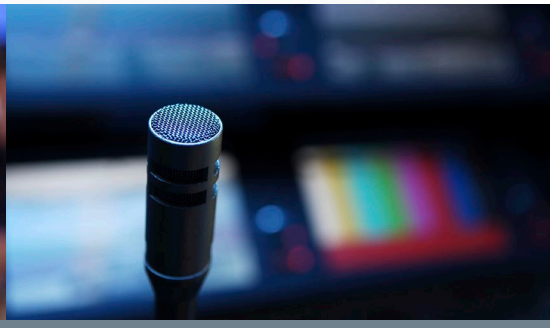
CLARK™
WIRE & CABLE

Broadcast and Commercial AV Cabling





Cable and Cable Assemblies - MASTER CATALOG

CORPORATE HEADQUARTERS:

Clark Wire & Cable
408 Washington Blvd.
Mundelein, IL 60060

Tel: 847-949-9944
Fax: 847-949-9595
Toll Free: 1-800-CABLE-IT (222-5348)

www.clarkwire.com

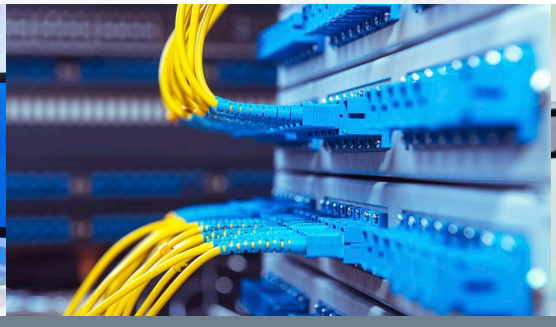
SECTION INDEX

CLARK™
WIRE & CABLE

Your Partner in Connectivity™

The premier innovator of cabling technology since 1989, Clark Wire & Cable continues to lead in the evolution and development of cabling and connectivity for broadcast and commercial AV systems. With a focus on precision and installation efficiency, Clark cables are designed to meet or exceed technology standards for both current and emerging formats while delivering time-saving installation features and reliable performance.

From its inception, Clark Wire & Cable has solely focused on specialized cabling solutions for pro-audio, broadcast video, staging, and commercial AV systems. Through Clark's unique combination of products and value added services, Clark delivers a complete turnkey solution to truly be - Your Partner in Connectivity™.


Cabling Designed and Engineered for Broadcast and Commercial AV Standards

SMPTE • HD/SDI • 10Gb/s • HYBRID FIBER • TIA/EIA • USITT
PRO-AUDIO • 2K/4K/8K HDTV • IEEE • AES/EBU • ETL • UL • CSA

CLARK WIRE & CABLE

VIDEO CABLE

Built for Broadcast

Designed and manufactured in the U.S., Clark video cables are engineered to industry leading specifications for HD/SDI, high-speed data, and other next generation pro-video formats. With unique constructions built for mobile production, post production, studio infrastructure, and commercial installation, Clark video cables bring solutions to a wide array of applications.

Available in UL rated, ruggedized tactical, and flexible studio-grade versions, Clark video cables deliver precision interconnects for a variety of environments. Tested and verified to ensure consistent performance in critical infrastructures, Clark video cables are 100% sweep-tested and quality controlled to meet or exceed SMPTE standards for digital video transmission.

In addition to bulk cable, Clark video cables can be ordered as pre-terminated assemblies with a variety of industry standard or custom connector options.

CLARK WIRE & CABLE

PRODUCT INDEX - VIDEO

See pages 110-120 for pre-terminated video cable assemblies.

CD7523

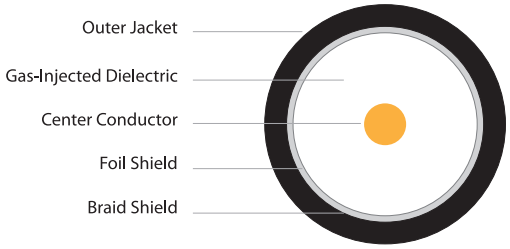
4.5GHz HD/SDI Miniature 23AWG Coaxial Cable

- Thin Profile 23AWG Size
- 4.5 GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Foil & Braid Shield
- UL Listed Type CMR

Part Number: **CD7523**
Description: 4.5GHz HD/SDI Miniature 23AWG Riser Rated Coaxial Cable

Materials & Dimensions

Center Conductor	23 AWG Solid BC .023" OD
Dielectric	Gas-Injected Foam PE .100" OD
Shield	100% Aluminum Foil 95% TC Braid
Jacket	Low Pressure, Easy Strip PVC
Overall Diameter	.159"
Available Colors	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight	UL Listing
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 20 Ω/Mft Shield: 7.6 Ω/Mft	16.4 pF/ft	83%	35 lbs max.	1.5" min.	-30˚C to 75˚C	18 lbs/Mft	CMR

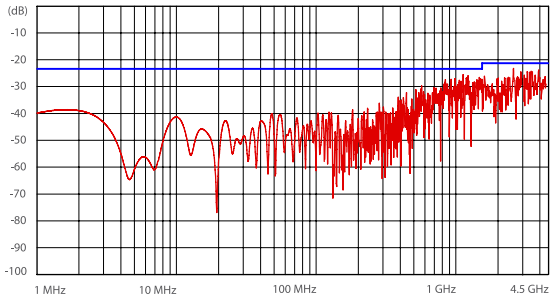
Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.38	0.78	1.2	3.0	3.8	5.4	6.2	9.3	10.5	13.0	16.0	18.5	22.8
Attenuation dB/100 meters	1.3	2.6	3.9	9.8	12.5	17.7	20.3	30.5	34.4	42.6	52.5	60.7	74.8

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	790'	681'	185' - 315'	135' - 211'

Actual distances may vary with each system. Typical lengths listed above only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

The CD7523 is a precision 4.5 GHz miniature 23AWG coax for HD/SDI, standard SDI or high resolution video applications. Clark's CD series coax features specifications that meet or exceed SMPTE 259M, 292M and 424M standards for high-definition digital video interconnect applications. Also built for easy termination, the CD series has an easy-to-strip outer jacket and dielectric that streamline connector termination. UL rated type CMR, the CD7523 can be installed in a variety of permanent installation locations and environments.

Return Loss (typical: frequency vs. RL dB)



CD7559

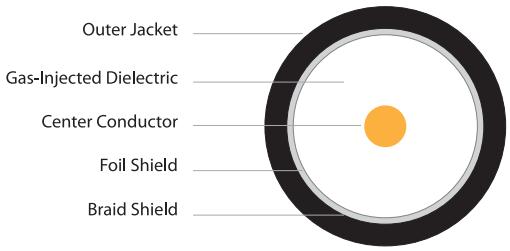
4.5GHz HD/SDI RG59 Coaxial Cable

- Low-Loss RG59 20AWG Size
- 4.5 GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Foil & Braid Shield
- UL Listed Type CMR

Part Number: **CD7559**
Description: 4.5GHz HD/SDI RG59 Riser Rated Coaxial Cable

Materials & Dimensions

Center Conductor	20 AWG Solid BC .032" OD
Dielectric	Gas-Injected Foam PE .146" OD
Shield	100% Aluminum Foil 95% TC Braid
Jacket	Low Pressure, Easy Strip PVC
Overall Diameter	.242"
Available Colors	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight	UL Listing
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 10.0 Ω/Mft Shield: 3.8 Ω/Mft	16.3 pF/ft	83%	55 lbs max.	2.4" min.	-30˚C to 75˚C	35 lbs/Mft	CMR

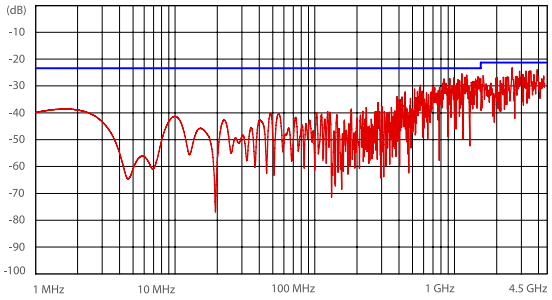
Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.29	0.55	0.86	2.1	2.7	3.7	4.4	6.4	7.6	9.3	11.5	13.3	16.4
Attenuation dB/100 meters	0.95	1.8	2.8	6.9	8.9	12.1	14.4	21.0	24.9	30.5	37.7	43.6	53.8

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	1060'	962'	269' - 400'	189' - 285'

Actual distances may vary with each system. Typical lengths listed above only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

The CD7559 is a precision 4.5 GHz RG59 coax for HD/SDI, standard SDI or high resolution video applications. Clark's CD series coax features specifications that meet or exceed SMPTE 259M, 292M and 424M standards for high-definition digital video interconnect applications. Also built for easy termination, the CD series has an easy-to-strip outer jacket and dielectric that streamline connector termination. UL rated type CMR, the CD7559 can be installed in a variety of permanent installation locations and environments.

Return Loss (typical: frequency vs. RL dB)



CD7559P

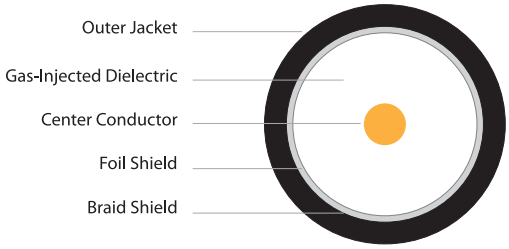
Plenum 4.5GHz HD/SDI RG59 Coaxial Cable

- Low-Loss RG59 20AWG Size
- 4.5 GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Foil & Braid Shield
- UL Listed Type CMP

Part Number: **CD7559P**
Description: 4.5GHz HD/SDI RG59 Plenum Rated Coaxial Cable

Materials & Dimensions

CENTER CONDUCTOR	20 AWG Solid BC .032" OD
DIELECTRIC	Gas-Injected Foam FEP .135" OD
SHIELD	100% Aluminum Foil 95% TC Braid
JACKET	Low Pressure, Easy Strip PL-PVC
OVERALL DIAMETER	.195"
AVAILABLE COLORS	Black (other colors available as special order)



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight	UL Listing
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 10.0 Ω/Mft Shield: 7.6 Ω/Mft	16.1 pF/ft	84%	53 lbs max.	1.9" min.	0˚C to 75˚C	29 lbs/Mft	CMP

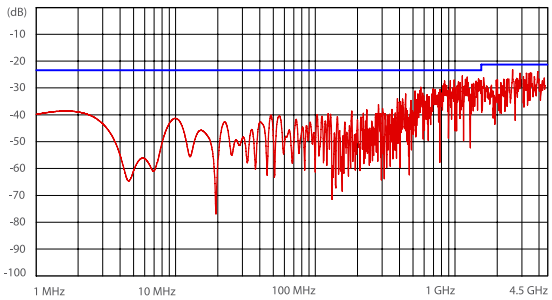
Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.28	0.55	0.88	2.1	2.9	4.1	4.8	7.2	9.0	11.5	14.8	17.5	27.5
Attenuation dB/100 meters	0.92	1.8	2.9	6.9	9.5	13.5	15.7	23.6	29.5	37.7	48.5	57.4	90.2

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	990'	882'	239' - 375'	153' - 233'

Actual distances may vary with each system. Typical lengths listed above only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

The CD7559P is a precision 4.5 GHz RG59 coax for HD/SDI, standard SDI or high resolution video applications. Clark's CD series coax features specifications that meet or exceed SMPTE 259M, 292M and 424M standards for high-definition digital video interconnect applications. Also built for easy termination, the CD series has an easy-to-strip outer jacket and dielectric that streamline connector termination. UL rated type CMP, the CD7559P can be installed in a variety of permanent installation locations and environments.

Return Loss (typical: frequency vs. RL dB)



CD7559F

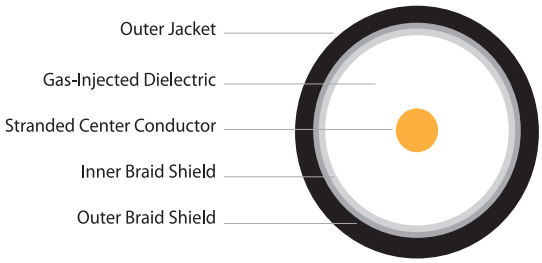
Ultra-Flexible 4.5GHz HD/SDI RG59 Coaxial Cable

- Ultra-Flexible Design
- Stranded Conductor & Dual Braids
- 4.5GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Ultra-Flexible TPE Outer Jacket

Part Number: **CD7559F**
Description: Ultra-Flexible 4.5GHz HD/SDI RG59 Coaxial Cable

Materials & Dimensions

Center Conductor	21 AWG (19 Strand) BC .031" O.D.
Dielectric	Gas-Injected Foam PE .146" O.D.
Shield	90% TC Braid & 90% TC Braid (dual braids)
Jacket	Ultra-Flexible TPE
Overall Diameter	.242"
Available Colors	Black



Performance Characteristics

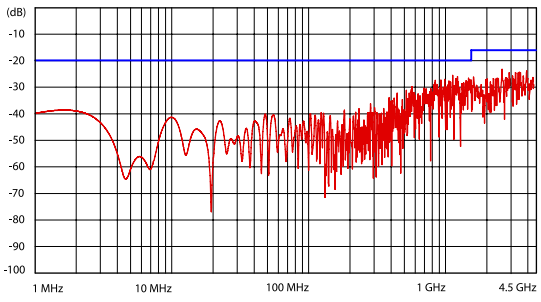
Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight
75Ω (+/-2)	>20 dB (1MHz - 1GHz) >15dB (1GHz - 4.5GHz)	Conductor: 12.2 Ω/Mft Shield: 2.4 Ω/Mft	17.0 pF/ft	78%	90 lbs max.	2.4" min.	-35˚C to 75˚C	35 lbs/Mft

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.25	0.51	0.91	2.5	3.5	5.0	5.9	8.6	10.4	13.1	16.5	19.6	24.8
Attenuation dB/100 meters	0.82	1.7	3.0	8.2	11.5	16.4	19.4	28.2	34.1	43.0	54.1	64.3	81.3

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	850'	720'	195' - 326'	130' - 204'

Actual distances may vary with each system. Typical lengths listed above only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

Return Loss (typical: frequency vs. RL dB)



The CD7559F is an ultra-flexible, precision 4.5 GHz RG59 coax for HD/SDI, standard SDI or high resolution video applications. As with all Clark CD series coax cables, the CD7559F features specifications that meet or exceed SMPTE 259M, 292M and 424M standards for high-definition digital video interconnect applications. Built for use in staging, remote broadcast and patching applications, the CD7559F utilizes an ultra-flexible TPE outer jacket, dual braided shields and a video grade, stranded center conductor for exceptional flexibility and flex-life.

CD7506

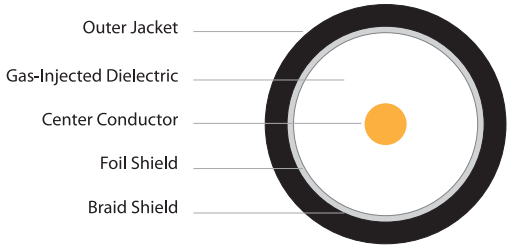
4.5GHz HD/SDI RG6 Coaxial Cable

- Low-Loss RG6 18AWG Size
- 4.5 GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Foil & Braid Shield
- UL Listed Type CMR

Part Number: **CD7506**
Description: 4.5GHz HD/SDI RG6 Riser Rated Coaxial Cable

Materials & Dimensions

Center Conductor	18 AWG Solid BC .040" OD
Dielectric	Gas-Injected Foam PE .180" OD
Shield	100% Aluminum Foil 95% TC Braid
Jacket	Low Pressure, Easy Strip PVC
Overall Diameter	.272"
Available Colors	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White



Performance Characteristics

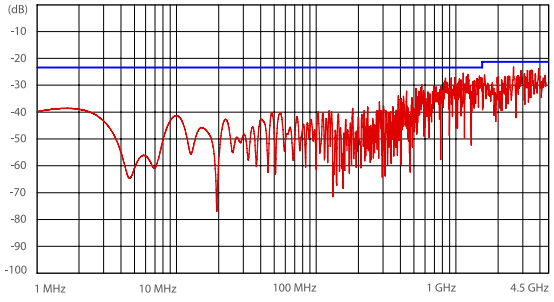
Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight	UL Listing
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 6.4 Ω/Mft Shield: 2.8 Ω/Mft	16.3 pF/ft	83%	70 lbs max.	2.7" min.	-30˚C to 75˚C	41 lbs/Mft	CMR

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.22	0.43	0.70	1.6	2.1	2.9	3.4	4.9	5.8	7.3	9.1	10.6	13.3
Attenuation dB/100 meters	0.72	1.4	2.3	5.3	6.9	9.5	11.2	16.1	19.0	23.9	29.9	34.8	43.6

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	1360'	1205'	351' - 570'	240' - 376'

Actual distances may vary with each system. Typical lengths listed above only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

Return Loss (typical: frequency vs. RL dB)



The CD7506 is a precision 4.5 GHz RG6 coax for HD/SDI, standard SDI or high resolution video applications. Clark's CD series coax features specifications that meet or exceed SMPTE 259M, 292M and 424M standards for high-definition digital video interconnect applications. Also built for easy termination, the CD series has an easy-to-strip outer jacket and dielectric that streamline connector termination. UL rated type CMR, the CD7506 can be installed in a variety of permanent installation locations and environments.

CD7506P

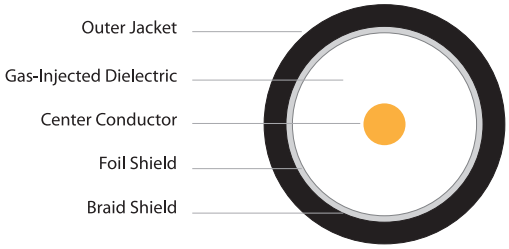
Plenum 4.5GHz HD/SDI RG6 Coaxial Cable

- Low-Loss RG6 18AWG Size
- 4.5 GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Foil & Braid Shield
- UL Listed Type CMP

Part Number: **CD7506P**
Description: 4.5GHz HD/SDI RG6 Plenum Rated Coaxial Cable

Materials & Dimensions

Center Conductor	18 AWG Solid BC .040" OD
Dielectric	Gas-Injected Foam FEP .170" OD
Shield	100% Aluminum Foil 95% TC Braid
Jacket	Low Pressure, Easy Strip PL-PVC
Overall Diameter	.237"
Available Colors	Black (other colors available as special order)



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight	UL Listing
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 6.4 Ω/Mft Shield: 2.8 Ω/Mft	16.1 pF/ft	84%	73 lbs max.	2.4" min.	0°C to 75°C	40 lbs/Mft	CMP

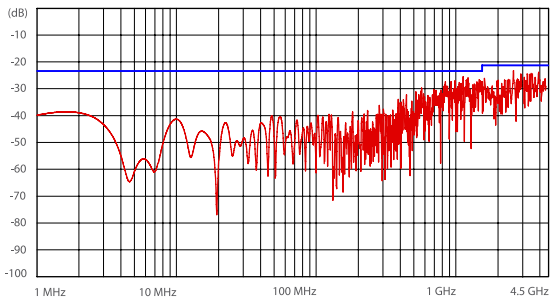
Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.22	0.45	0.73	1.7	2.4	3.4	3.9	6.1	7.2	9.1	11.5	13.7	16.9
Attenuation dB/100 meters	0.72	1.5	2.4	5.6	7.9	11.2	12.8	20.0	23.6	29.9	37.7	44.9	55.4

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	1232'	1068'	282' - 458'	193' - 290'

Actual distances may vary with each system. Typical lengths listed above only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

The CD7506P is a precision 4.5 GHz RG6 coax for HD/SDI, standard SDI or high resolution video applications. Clark's CD series coax features specifications that meet or exceed SMPTE 259M, 292M and 424M standards for high-definition digital video interconnect applications. Also built for easy termination, the CD series has an easy-to-strip outer jacket and dielectric that streamline connector termination. UL rated type CMP, the CD7506P can be installed in a variety of permanent installation locations and environments.

Return Loss (typical: frequency vs. RL dB)



CD7506DB

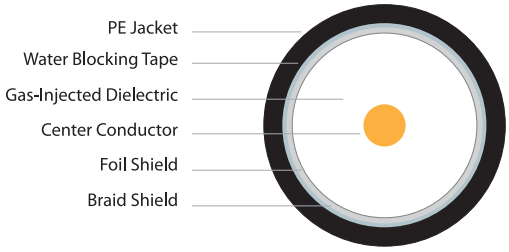
Direct Burial 4.5GHz HD/SDI RG6 Coaxial Cable

- Low-Loss RG6 18AWG Size
- 4.5 GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Foil & Braid Shield
- Direct Burial Construction

Part Number: **CD7506DB**
Description: Direct Burial 4.5GHz HD/SDI RG6 Coaxial Cable

Materials & Dimensions

Center Conductor	18 AWG Solid BC .040" OD
Dielectric	Gas-Injected Foam PE .180" OD
Shield	100% Aluminum Foil & 95% TC Braid
Barrier	Water-Blocking Tape
Jacket	Polyethylene
Overall Diameter	.272"
Available Colors	Black



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Weight
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 6.4 Ω/Mft Shield: 2.8 Ω/Mft	16.3 pF/ft	83%	70 lbs max.	2.7" min.	40 lbs/Mft

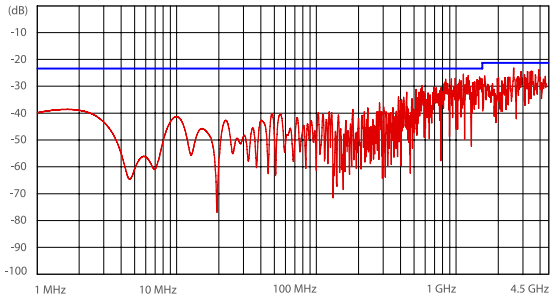
Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.22	0.43	0.70	1.6	2.1	2.9	3.4	4.9	5.8	7.3	9.1	10.6	13.3
Attenuation dB/100 meters	0.72	1.4	2.3	5.3	6.9	9.5	11.2	16.1	19.0	23.9	29.9	34.8	43.6

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	1360'	1205'	351' - 570'	240' - 376'

Actual distances may vary with each system. Typical lengths listed above only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

The CD7506DB is a precision 4.5 GHz RG6 coax for HD/SDI, standard SDI or high resolution video formats in direct burial applications. Clark's CD series coax features specifications that meet or exceed SMPTE 259M, 292M and 424M standards for high-definition digital video interconnect applications. Designed for direct burial applications, the CD7506DB has a puncture resistant PE jacket and a water-blocking tape barrier that provides an additional level of protection for moisture absorbtion in the event that the jacket is penetrated.

Return Loss (typical: frequency vs. RL dB)



CD7506F

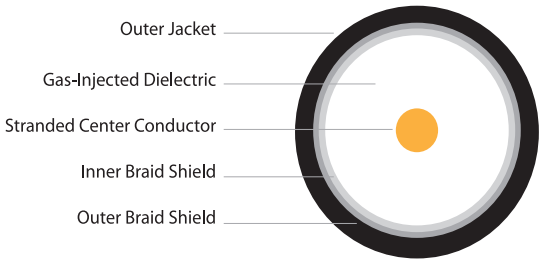
Ultra-Flexible 4.5GHz HD/SDI RG6 Coaxial Cable

- Ultra-Flexible Design
- Stranded Conductor & Dual Braids
- 4.5GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Flexible and Rugged TPE Jacket

Part Number: **CD7506F**
Description: Ultra-Flexible 4.5GHz HD/SDI RG6 Coaxial Cable

Materials & Dimensions

Center Conductor	19 AWG (19 Strand) BC .040" O.D.
Dielectric	Gas-Injected Foam PE .180" O.D.
Shield	90% TC Braid & 90% TC Braid (dual braids)
Jacket	Flexible TPE
Overall Diameter	.272"
Available Colors	Black, Violet



Performance Characteristics

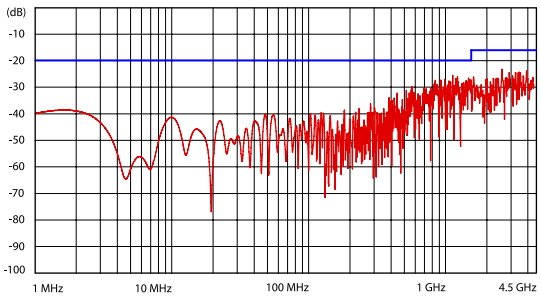
Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight
75Ω (+/-2)	>20 dB (1MHz - 1GHz) >15dB (1GHz - 4.5GHz)	Conductor: 8.5 Ω/Mft Shield: 1.7 Ω/Mft	17.0 pF/ft	78%	116 lbs max.	2.7" min.	-35˚C to 75˚C	45 lbs/Mft

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.22	0.50	0.73	2.0	2.8	4.0	4.8	7.0	8.28	10.5	13.2	15.6	19.8
Attenuation dB/100 meters	0.73	1.64	2.39	6.56	9.18	13.1	15.7	23.0	27.2	34.4	43.3	51.2	64.9

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	1015'	900'	245' - 395'	165' - 275'

Actual distances may vary with each system. Typical lengths listed above only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

Return Loss (typical: frequency vs. RL dB)



The CD7506F is an ultra-flexible, precision 4.5 GHz RG6 coax for HD/SDI, standard SDI or high resolution video applications. As with all Clark CD series coax cables, the CD7506F features specifications that meet or exceed SMPTE 259M, 292M and 424M standards for high-definition digital video interconnect applications. Built for use in staging, remote broadcast and patching applications, the CD7506F utilizes an extra-flexible yet rugged TPE outer jacket, dual braided shields and a video grade, stranded center conductor for exceptional flexibility and flex-life.

CD7511

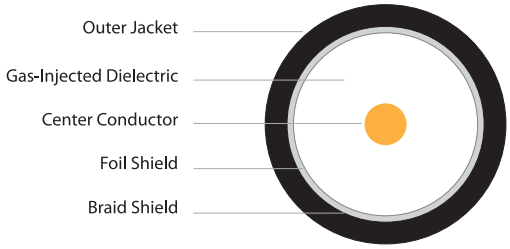
4.5GHz HD/SDI RG11 Coaxial Cable

- Low-Loss RG11 14AWG Size
- 4.5 GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Foil & Braid Shield
- UL Listed Type CMR

Part Number: **CD7511**
Description: 4.5GHz HD/SDI RG11 Riser Rated Coaxial Cable

Materials & Dimensions

Center Conductor	14 AWG Solid BC .064" OD
Dielectric	Gas-Injected Foam PE .285" OD
Shield	100% Aluminum Foil 95% TC Braid
Jacket	Low Pressure, Easy Strip PVC
Overall Diameter	.405"
Available Colors	Black (other colors available as special order)



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight	UL Listing
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 2.5 Ω/Mft Shield: 1.5 Ω/Mft	16.1 pF/ft	84%	83 lbs max.	4.0" min.	-30˚C to 75˚C	104 lbs/Mft	CMR

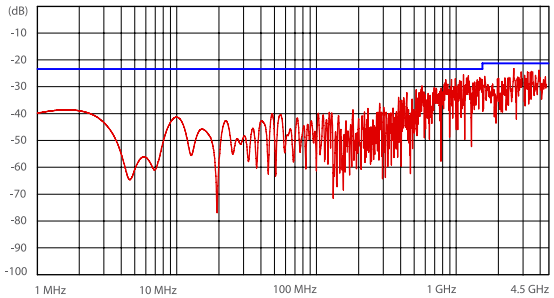
Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.14	0.28	0.43	1.0	1.4	1.9	2.2	3.3	3.9	4.8	5.8	6.7	8.8
Attenuation dB/100 meters	0.46	0.92	1.4	3.3	4.6	6.2	7.2	10.8	12.8	15.7	19.0	22.0	28.9

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	2046'	1834'	521' - 849'	366' - 570'

Actual distances may vary with each system. Typical lengths listed above only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

The CD7511 is a precision 4.5 GHz RG11 coax for HD/SDI, standard SDI or high resolution video applications. Clark's CD series coax features specifications that meet or exceed SMPTE 259M, 292M and 424M standards for high-definition digital video interconnect applications. Also built for easy termination, the CD series has an easy-to-strip outer jacket and dielectric that streamline connector termination. UL rated type CMR, the CD7511 can be installed in a variety of permanent installation locations and environments.

Return Loss (typical: frequency vs. RL dB)



CD7511P

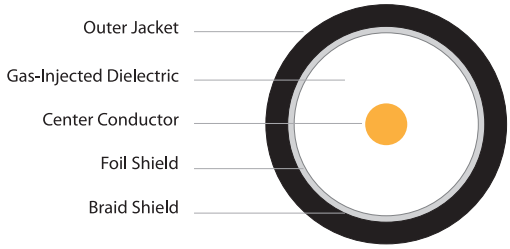
Plenum 4.5GHz HD/SDI RG11 Coaxial Cable

- Low-Loss RG11 14AWG Size
- 4.5 GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Foil & Braid Shield
- UL Listed Type CMP

Part Number: **CD7511P**
Description: 4.5GHz HD/SDI RG11 Plenum Rated Coaxial Cable

Materials & Dimensions

Center Conductor	14 AWG Solid BC .064" OD
Dielectric	Gas-Injected Foam FEP .280" OD
Shield	100% Aluminum Foil 95% TC Braid
Jacket	Low Pressure, Easy Strip PL-PVC
Overall Diameter	.348"
Available Colors	Black (other colors available as special order)



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight	UL Listing
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 2.5 Ω/Mft Shield: 1.6 Ω/Mft	16.0 pF/ft	84%	140 lbs max.	3.5" min.	-40˚C to 150˚C	80 lbs/Mft	CMP

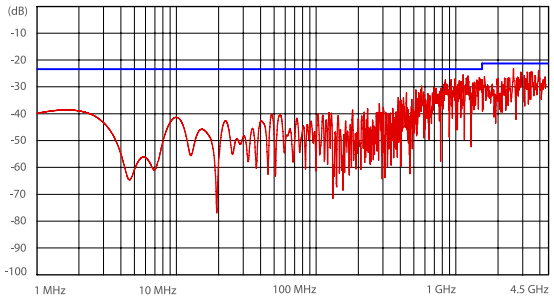
Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.14	0.25	0.41	1.0	1.4	2.2	2.7	4.2	5.3	6.8	9.0	10.1	13.3
Attenuation dB/100 meters	0.46	0.82	1.4	3.3	4.6	7.2	8.9	13.8	17.4	22.3	29.5	33.1	43.6

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	2010'	1650'	408' - 667'	258' - 398'

Actual distances may vary with each system. Typical lengths listed above only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

The CD7511P is a precision 4.5 GHz RG11 coax for HD/SDI, standard SDI or high resolution video applications. Clark's CD series coax features specifications that meet or exceed SMPTE 259M, 292M and 424M standards for high-definition digital video interconnect applications. Also built for easy termination, the CD series has an easy-to-strip outer jacket and dielectric that streamline connector termination. UL rated type CMP, the CD7511P can be installed in a variety of permanent installation locations and environments.

Return Loss (typical: frequency vs. RL dB)



DSM Series

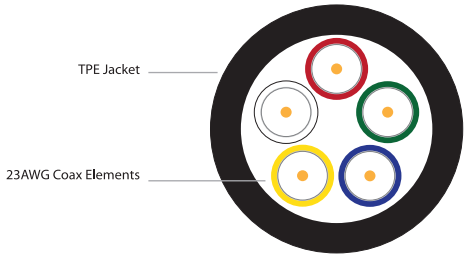
Miniature 23AWG HD/SDI 75Ω Coax Snake Cables

- Low-Loss 23AWG Coaxes
- 4.5GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Flexible and Rugged TPE Jacket
- Three, Five or Ten Channel Versions

Part Number: **DSMx** (see below for variations)
Description: 75Ω Miniature 23AWG HD/SDI Coax Snake Cables

Materials & Dimensions

Conductors	(1) 23AWG Solid BC .023" O.D. (per coax element)
Insulation	Gas-Injected Foam PE .100" O.D.
Shield	100% Aluminum Foil 95% TC Braid
Coax Jacket	Low Pressure, Easy Strip PVC, .159" O.D.
Overall Jacket	Black TPE (see below for overall cable diameters)



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Operating Temperature	Listings
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 20 Ω/Mft Shield: 7.6 Ω/Mft	16.4 pF/ft	83%	-30˚C to 75˚C	CMR/CMG C(UL)US FT-4 (CSA)

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.38	0.78	1.2	3.0	3.8	5.4	6.2	9.3	10.5	13.0	16.0	18.5	22.8
Attenuation dB/100 meters	1.3	2.6	3.9	9.8	12.5	17.7	20.3	30.5	34.4	42.6	52.5	60.7	74.8

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	790'	681'	185' - 315'	135' - 211'

Actual distances may vary with each system. Typical lengths listed only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

Product Variations

Part Number	Number of Coax Elements	Coax Color Code	Overall Diameter	Weight	Bend Radius
DSM3	3	Red, Green, Blue	.465"	115 lbs/Mft	4.7"
DSM5	5	Red, Green, Blue, Yellow, White	.550"	158 lbs/Mft	5.5"
DSM10	10	Red, Green, Blue, Yellow, White, Brown, Orange, Violet, Grey, Black	.790"	316 lbs/Mft	7.9"

The DSM series coax snake cables feature precision 4.5GHz miniature 23AWG coaxes for HD/SDI, standard SDI or high resolution video applications. Each coax element meets or exceeds SMPTE 259M, 292M and 424M standards for high-definition digital video formats. Also built for easy termination, the DSM series coaxes have easy-to-strip outer jackets and dielectrics that streamline connector termination. The outer jacket is extruded from a flexible, rugged and abrasion resistant TPE compound that is ideal for portable and staging applications and UL rated for permanent installation.

See CD7523 specifications for additional coax attenuation values.

59x Series

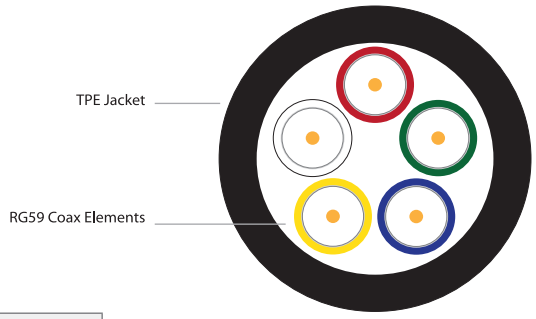
RG59 HD/SDI 75Ω Coax Snake Cables

- Low-Loss RG59 20AWG Coaxes
- 4.5GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Flexible and Rugged TPE Jacket
- Three, Five or Ten Channel Versions

Part Number: **59x** (see below for variations)
Description: 75Ω RG59 HD/SDI Coax Snake Cables

Materials & Dimensions

Conductors	(1) 20AWG Solid BC .032" O.D. (per coax element)
Insulation	Gas-Injected Foam PE .146" O.D.
Shield	100% Aluminum Foil 95% TC Braid
Coax Jacket	Low Pressure, Easy Strip PVC, .242" O.D.
Overall Jacket	Black TPE (see below for overall cable diameters)



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Operating Temperature
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 10.0 Ω/Mft Shield: 3.8 Ω/Mft	16.3 pF/ft	83%	-30˚C to 75˚C

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.29	0.55	0.86	2.1	2.7	3.7	4.4	6.4	7.6	9.3	11.5	13.3	16.4
Attenuation dB/100 meters	0.95	1.8	2.8	6.9	8.9	12.1	14.4	21.0	24.9	30.5	37.7	43.6	53.8

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	1060'	962'	269' - 400'	189' - 285'

Actual distances may vary with each system. Typical lengths listed only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

Product Variations

Part Number	Number of Coax Elements	Coax Color Code	Overall Diameter	Weight	Bend Radius
593	3	Red, Green, Blue	.650"	215 lbs/Mft	6.5"
595	5	Red, Green, Blue, Yellow, White	.795"	330 lbs/Mft	8.0"
590	10	Red, Green, Blue, Yellow, White, Brown, Orange, Violet, Grey, Black	1.100"	625 lbs/Mft	11.0"

The 59x series coax snake cables feature precision 4.5GHz RG59 coaxes for HD/SDI, standard SDI or high resolution video applications. Each coax element meets or exceeds SMPTE 259M, 292M and 424M standards for high-definition digital video formats. Also built for easy termination, the 59x series coaxes have easy-to-strip outer jackets and dielectrics that streamline connector termination. The outer jacket is extruded from a flexible, rugged and abrasion resistant TPE compound that is ideal for portable and staging applications.

See CD7559 specifications for additional coax attenuation values.

CD7506D

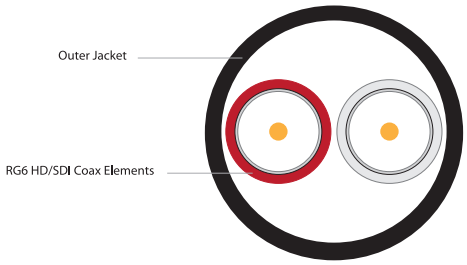
Two Channel RG6 HD/SDI 4.5GHz Cable

- Two-Channel RG6 Coax Snake
- 4.5 GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Foil & Braid Shield
- Flexible & Abrasion Resistant

Part Number: **CD7506D**
Description: Two Channel RG6 HD/SDI 4.5 GHz Cable

Materials & Dimensions

Coax Elements	2 - RG6 Coaxes
Coax: Center Conductor	18 AWG Solid BC, .040" OD
Coax: Dielectric	Gas-Injected Foam PE, .180" OD
Coax: Shield	100% Aluminum Foil 95% TC Braid
Coax: Jacket	Low Pressure, Easy Strip PVC, .272" OD
Outer Jacket	Black TPE, .650" O.D.



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 6.4 Ω/Mft Shield: 2.8 Ω/Mft	16.3 pF/ft	83%	140 lbs max.	6.5" min.	-30˚C to 75˚C	140 lbs/Mft

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.22	0.43	0.70	1.6	2.1	2.9	3.4	4.9	5.8	7.3	9.1	10.6	13.3
Attenuation dB/100 meters	0.72	1.4	2.3	5.3	6.9	9.5	11.2	16.1	19.0	23.9	29.9	34.8	43.6

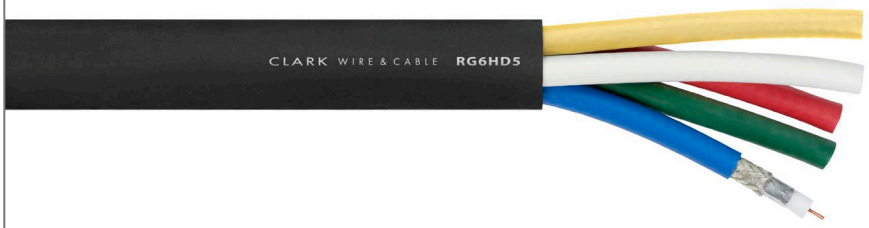
HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	1360'	1205'	351' - 570'	240' - 376'

Actual distances may vary with each system. Typical lengths listed only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

The CD7506D is a precision, two-channel RG6 HD/SDI coax snake for 3D camera or send and return video applications. Built for studio or remote applications, the CD7506D features a round TPE jacket that is both flexible and abrasion resistant. Each of the CD series RG6 coax elements feature precision 75 Ohm impedances and 4.5 GHz bandwidths for the latest SMPTE 292M and 424M digital video standards. Also built for easy termination, the CD series coax elements have easy-to-strip jackets and dielectrics that streamline connector termination.

RG6HD5

RG6 Five Channel HD/SDI 75Ω Coax Snake Cable

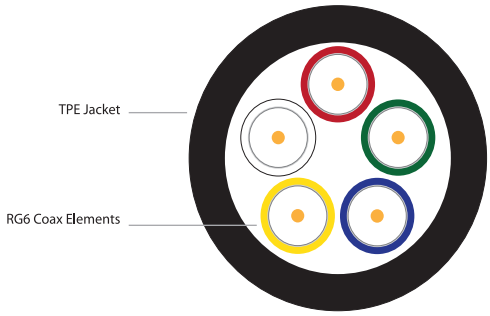


- Low-Loss RG6 18AWG Coaxes
- 4.5GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Flexible and Rugged TPE Jacket
- Five Coax Channels

Part Number: **RG6HD5**
Description: RG6 Five Channel HD/SDI 75Ω Coax Snake Cables

Materials & Dimensions

Conductors	(1) 18AWG Solid BC .040" O.D. (per coax element)
Insulation	Gas-Injected Foam PE .180" O.D.
Shield	100% Aluminum Foil 95% TC Braid
Coax Jacket	Low Pressure, Easy Strip PVC, .272" O.D.
Coax Elements	5
Coax Color Code	Red, Blue, Green, Yellow, White
Overall Jacket	Black TPE, .880" O.D.



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Bend Radius	Operating Temperature	Weight
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 6.4 Ω/Mft Shield: 2.8 Ω/Mft	16.3 pF/ft	83%	8.8" min.	-30˚C to 75˚C	385 lbs/Mft

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.22	0.43	0.70	1.6	2.1	2.9	3.4	4.9	5.8	7.3	9.1	10.6	13.3
Attenuation dB/100 meters	0.72	1.4	2.3	5.3	6.9	9.5	11.2	16.1	19.0	23.9	29.9	34.8	43.6

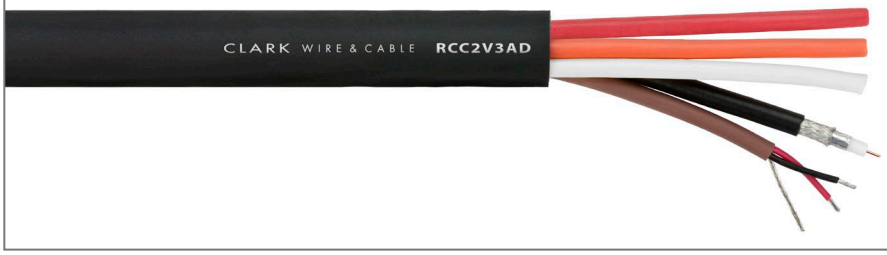
HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	1360'	1205'	351' - 570'	240' - 376'

Actual distances may vary with each system. Typical lengths listed only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

The RG6HD5 coax snake cable features precision 4.5GHz RG6 coaxes for HD/SDI, standard SDI or high resolution video applications. Each coax element meets or exceeds SMPTE 259M, 292M and 424M standards for high-definition digital video formats. Also built for easy termination, the RG6HD5 has easy-to-strip coax jackets and dielectrics that streamline connector termination. The outer jacket is extruded from a flexible, rugged and abrasion resistant TPE compound that is ideal for portable and staging applications.

RCC-D Series

Thin Profile Composite A/V Snake Cables

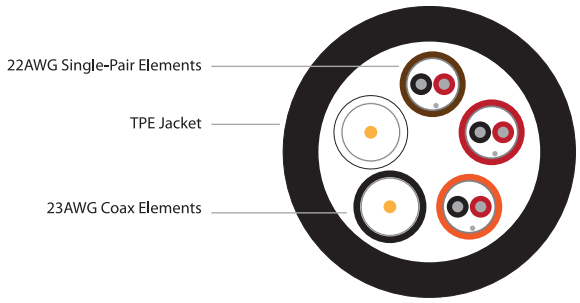


- Miniature 23AWG HD/SDI Coaxes
- 22AWG Audio Single-Pairs
- 4.5GHz Coaxial Bandwidth
- SMPTE 259, 292 & 424 Compliant
- Color Coded Elements
- Flexible and Rugged TPE Jacket

Part Number: **RCC-D Series** (see below for variations)
Description: Thin Profile Composite A/V Snake Cables

Materials & Dimensions

Audio Elements	22AWG (7x30) TC Conductors (2 per single-pair) Polypropylene Insulation .008" wall (red & black) 100% Bonded Foil Shield 22AWG (7x30) TC Drain Wire PVC Pair Jacket .132" O.D.
Video Elements	23AWG Solid BC Conductor (1 per coax) Gas-Injected Foam PE, .100" O.D. 100% Foil & 95% TC Braid Shields PVC Coax Jacket .159" O.D.
Overall Jacket	Black TPE (see below for overall cable diameters)



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Operating Temperature	Coax Attenuation (dB/100 feet)			
						135 MHz	1 GHz	3 GHz	4.5 GHz
Coax Elements: 75Ω (+/-2)	*Coax Elements:* >23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	*Coax Elements:* Conductor: 20 Ω/Mft Shield: 7.6 Ω/Mft *Single-Pair Elements:* Conductor: 14.4 Ω/Mft Drain & Shield: 12.5 Ω/Mft	*Coax Elements:* 16.4 pF/ft *Single-Pair Elements:* 25.7 pF/ft between conductors, 47.3 pF/ft between one conductor and other in common with shield	*Coax Elements:* 83%	-30˚C to 75˚C	3.8	10.5	18.5	22.8

Product Variations

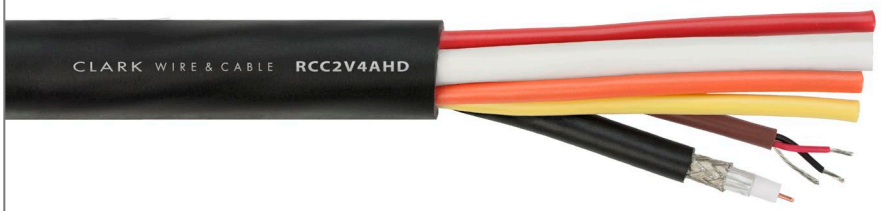
Part Number	Coax Elements	Coax Color Code	Audio Pair Elements	Audio Pair Color Code	Overall Diameter	Weight	Bend Radius
RCC2V3AD	2	Black, White	3	Brown, Red, Orange	.550"	152 lbs/Mft	5.3"
RCC2V5AD	2	Black, White	5	Brown, Red, Orange, Yellow, White	.580"	190 lbs/Mft	5.8"

The RCC-D series cables are hybrid audio and video cables designed for remote broadcast, staging and production environments. Each video element is a CD7523 miniature 23AWG HD/SDI coax cable that is rated to 4.5GHz for high definition SMPTE 424M, 292M and 259M video data transmission. The audio elements are made from Clark's SPA22GS low-loss 22AWG single-pair cables. Each audio and video element is uniquely color coded for quick identification. The outer jacket is extruded from a TPE compound that is extra-flexible, rugged and abrasion resistant.

See CD7523 specifications for additional coax attenuation specifications and HD/SDI transmission distances.

RCC-HD Series

RG59 Composite A/V Snake Cables

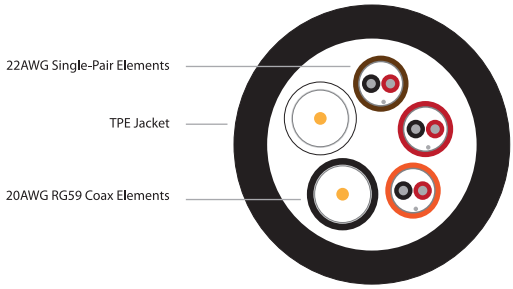


- RG59 HD/SDI Coaxes
- 22AWG Audio Single-Pairs
- 4.5GHz Coaxial Bandwidth
- SMPTE 259, 292 & 424 Compliant
- Color Coded Elements
- Flexible and Rugged TPE Jacket

Part Number: **RCC-HD Series** (see below for variations)
Description: RG59 Composite A/V Snake Cables

Materials & Dimensions

Audio Elements	22AWG (7x30) TC Conductors (2 per single-pair) Polypropylene Insulation .008" wall (red & black) 100% Bonded Foil Shield 22AWG (7x30) TC Drain Wire PVC Pair Jacket .132" O.D.
Video Elements	20 AWG Solid BC Conductor (1 per coax) Gas-Injected Foam PE, .146" O.D. 100% Foil & 95% TC Braid Shields PVC Coax Jacket .242" O.D.
Overall Jacket	Black TPE (see below for overall cable diameters)



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Operating Temperature	Coax Attenuation (dB/100 feet)			
						135 MHz	1 GHz	3 GHz	4.5 GHz
Coax Elements: 75Ω (+/-2)	*Coax Elements:* >23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	*Coax Elements:* Conductor: 10.0 Ω/Mft Shield: 3.8 Ω/Mft *Single-Pair Elements:* Conductor: 14.4 Ω/Mft Drain & Shield: 12.5 Ω/Mft	*Coax Elements:* 16.3 pF/ft *Single-Pair Elements:* 25.7 pF/ft between conductors, 47.3 pF/ft between one conductor and other in common with shield	*Coax Elements:* 83%	-30˚C to 75˚C	2.7	7.6	13.3	16.4

Product Variations

Part Number	Coax Elements	Coax Color Code	Audio Pair Elements	Audio Pair Color Code	Overall Diameter	Weight	Bend Radius
RCC1V2AHD	1	Black	2	Brown, Red	.490"	130 lbs/Mft	4.9"
RCC1V3AHD	1	Black	3	Brown, Red, Orange	.550"	150 lbs/Mft	5.5"
RCC2V3AHD	2	Black, White	3	Brown, Red, Orange	.650"	210 lbs/Mft	6.5"
RCC2V4AHD	2	Black, White	4	Brown, Red, Orange, Yellow	.675"	240 lbs/Mft	6.8"
RCC3V4AHD	3	Black, White, Grey	4	Brown, Red, Orange, Yellow	.745"	285 lbs/Mft	7.5"
RCC3V6AHD	3	Black, White, Grey	6	Brown, Red, Orange, Yellow, Green, Blue	.780"	325 lbs/Mft	7.8"
RCC4V4AHD	4	Black, White, Grey, Violet	4	Brown, Red, Orange, Yellow	.815"	340 lbs/Mft	8.2"

The RCC-HD series cables are hybrid audio and video cables designed for remote broadcast, staging and production environments. Each video element is a CD7559 20AWG RG59 HD/SDI coax cable that is rated to 4.5GHz for high definition SMPTE 424M, 292M and 259M video data transmission. The audio elements are made from Clark's SPA22GS low-loss 22AWG single-pair cables. Each audio and video element is uniquely color coded for quick identification. The outer jacket is extruded from a TPE compound that is extra-flexible, rugged and abrasion resistant.

See CD7559 specifications for additional coax attenuation specifications and HD/SDI transmission distances.

RCC-HDP Series

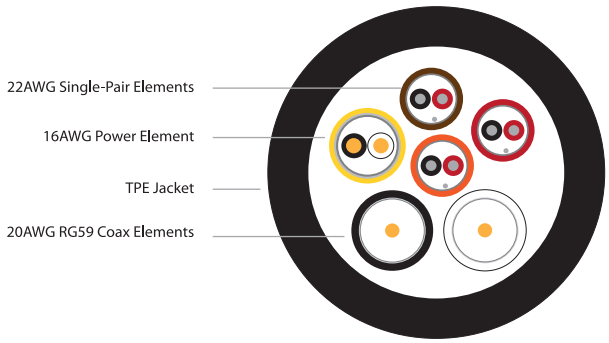
RG59 Composite A/V and Power Snake Cables

- RG59 HD/SDI Coaxes
- 22AWG Audio Single-Pairs
- Shielded 16AWG Power Pair
- 4.5GHz Coaxial Bandwidth
- SMPTE 259, 292 & 424 Compliant
- Flexible and Rugged TPE Jacket

Part Number: **RCC-HDP Series** (see below for variations)
Description: RG59 Composite A/V and Power Snake Cables

Materials & Dimensions

Audio Elements	22AWG (7x30) TC Conductors (2 per single-pair) Polypropylene Insulation .008" wall (red & black) 100% Bonded Foil Shield 22AWG (7x30) TC Drain Wire PVC Pair Jacket .132" O.D.
Video Elements	20 AWG Solid BC Conductor (1 per coax) Gas-Injected Foam PE, .146" O.D. 100% Foil & 95% TC Braid Shields PVC Coax Jacket .242" O.D.
Power Elements	16AWG (19x29) BC Conductors (2 per single-pair) PVC Insulation .010" wall (white & black) 100% Foil Shield & 92% TC Braid PVC Pair Jacket .225" O.D.
Overall Jacket	Black TPE (see below for overall cable diameters)



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Operating Temperature	Coax Attenuation (dB/100 feet)			
						135 MHz	1 GHz	3 GHz	4.5 GHz
Coax Elements: 75Ω (+/-2)	*Coax Elements:* >23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	*Coax Elements:* Conductor: 10.0 Ω/Mft Shield: 3.8 Ω/Mft *Single-Pair Elements:* Conductor: 14.4 Ω/Mft Drain & Shield: 12.5 Ω/Mft *Power-Pair Element:* Conductor: 4.5 Ω/Mft Shield: 4.2 Ω/MfT	*Coax Elements:* 16.3 pF/ft *Single-Pair Elements:* 25.7 pF/ft between conductors, 47.3 pF/ft between one conductor and other in common with shield	*Coax Elements:* 83%	-30˚C to 75˚C	2.7	7.6	13.3	16.4

Product Variations

Part Number	Coax Elements	Coax Color Code	Audio Pair Elements	Audio Pair Color Code	Power Elements	Power Color Code	Overall Diameter	Weight	Bend Radius
RCC1V2AHDP	1	Black	2	Brown, Red	1	Yellow	.660"	230 lbs/Mft	6.6"
RCC2V3AHDP	2	Black, White	3	Brown, Red, Orange	1	Yellow	.695"	315 lbs/Mft	7.0"
RCC3V4AHDP	3	Black, White, Grey	4	Brown, Red, Orange, Green	1	Yellow	.860"	405 lbs/Mft	8.6"

See CD7559 specifications for additional coax attenuation specifications and HD/SDI transmission distances.

CD7506DPWR

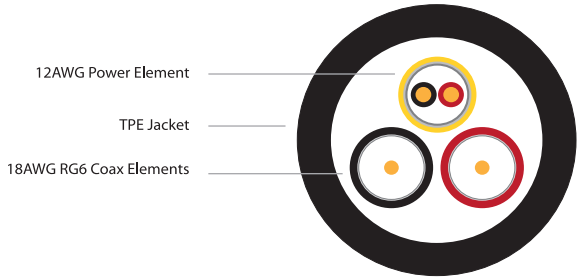
Two RG6 HD/SDI Coax with 2C-12AWG Snake Cable

- Two RG6 HD/SDI Coax Elements
- 4.5 GHz Bandwidth
- Gas-Injected Dielectric
- SMPTE 259, 292 & 424 Compliant
- Two 12AWG Power Conductors
- Flexible & Abrasion Resistant Jacket

Part Number: **CD7506DPWR**
Description: Two RG6 HD/SDI Coax with 2C-12AWG Conductor Snake Cable

Materials & Dimensions

Coax Elements	2 - RG6 Coaxes 18 AWG Solid BC, .040" OD Gas-Injected Foam PE, .180" OD 100% Aluminum Foil & 95% TC Braid Shield Low Pressure, Easy Strip PVC Jacket, .272" OD
Twisted Pair Element	12AWG (19x25) BC Conductors PVC Insulation, .012" wall - one red, one black PVC Jacket, .278" OD - Yellow
Outer Jacket	Black TPE, .722" O.D.



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Bend Radius	Operating Temperature	Weight
Coax Elements: 75Ω (+/-2)	*Coax Elements:* >23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	*Coax Elements:* 18AWG Conductor: 6.4 Ω/Mft Coax Shield: 2.8 Ω/Mft *Twisted Pair Elements:* 12AWG (19x25) Conductor: 1.8 Ω/Mft	*Coax Elements:* 16.3 pF/ft	*Coax Elements:* 83%	7.2" min.	-30˚C to 75˚C	240 lbs/Mft

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.22	0.43	0.70	1.6	2.1	2.9	3.4	4.9	5.8	7.3	9.1	10.6	13.3
Attenuation dB/100 meters	0.72	1.4	2.3	5.3	6.9	9.5	11.2	16.1	19.0	23.9	29.9	34.8	43.6

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	1360'	1205'	351' - 570'	240' - 376'

Actual distances may vary with each system. Typical lengths listed only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

The CD7506DPWR is a precision, two-channel RG6 HD/SDI coax snake with 12AWG twisted-pair designed for camera applications that require two channels of HD/SDI coax plus power in a single cable. Built for studio or remote applications, the CD7506DPWR features a round TPE jacket that is both flexible and abrasion resistant. Each of the CD series RG6 coax elements feature precision 75 Ohm impedances and 4.5 GHz bandwidths for the latest SMPTE 292M and 424M digital video standards. Also built for easy termination, the jacket and insulation materials are easy-to-strip for streamlined connector termination.

RCC2V2A1C6HDE

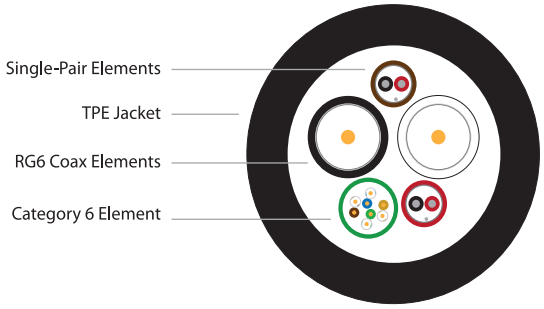
RG6 A/V + Cat6 Multi-Core Cable

- Two RG6 HD/SDI Coaxes
- Two 22AWG Audio Single-Pairs
- One Cat6 Network Cable
- 4.5GHz Coaxial Bandwidth
- SMPTE 259, 292 & 424 Compliant
- Flexible and Rugged TPE Jacket

Part Number: **RCC2V2A1C6HDE**
Description: RG6 A/V + Cat6 Multi-Core Cable

Materials & Dimensions

Audio Elements	22AWG (7x30) TC Conductors (2 per single-pair) Polypropylene Insulation .008" wall (red & black) 100% Bonded Foil Shield 22AWG (7x30) TC Drain Wire PVC Pair Jacket .132" O.D.
Video Elements	18 AWG Solid BC Conductor (1 per coax) Gas-Injected Foam PE, .180" O.D. 100% Foil & 95% TC Braid Shields PVC Coax Jacket .272" O.D.
Network Element	23 AWG Solid BC Conductors (four twisted-pairs) Polyethylene Insulation PVC Jacket .220" O.D.
Overall Jacket	Black TPE



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Operating Temperature	Coax Attenuation (dB/100 feet)			
						135 MHz	1 GHz	3 GHz	4.5 GHz
Coax Elements: 75Ω (+/-2)	*Coax Elements:* >23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	*Coax Elements:* Conductor: 6.4 Ω/Mft Shield: 2.8 Ω/Mft *Single-Pair Elements:* Conductor: 14.4 Ω/Mft Drain & Shield: 12.5 Ω/Mft	*Coax Elements:* 16.3 pF/ft *Single-Pair Elements:* 25.7 pF/ft between conductors, 47.3 pF/ft between one conductor and other in common with shield	*Coax Elements:* 83%	-30˚C to 75˚C	2.1	5.8	10.6	13.3

Overall Mechanical Specifications

Part Number	Coax Elements	Coax Color Code	Audio Pair Elements	Audio Pair Color Code	Overall Diameter	Network Elements	Network Color	Weight	Bend Radius
RCC2V2A1C6HDE	2	White, Black	2	Brown, Red	.720"	1	Green	240 lbs/Mft	7.2"

The RCC2V2A1C6HDE cable is hybrid a/v multi-core cable with an added category 6 element for networking and data transfer in remote production and ENG applications. Each video element is a CD7506 18AWG RG6 HD/SDI coax that is rated to 4.5GHz for high definition SMPTE 424M, 292M and 259M video data transmission. The audio elements are made from Clark's SPA22GS low-loss 22AWG single-pair cables. All elements are uniquely color coded for quick identification and the outer jacket is extruded from a TPE compound that is extra-flexible, rugged and abrasion resistant.

See CD7506 specifications for additional coax attenuation specifications and HD/SDI transmission distances.

Video Cable Appendix

BNC Connector Cross Reference

BNC Crimp Connectors

Clark Cable Part Number	ADC Brand	Kings Brand	Neutrik Brand	Canare Brand	Amphenol Brand
59x Series	BNC-1	2065-2-9	NBNC75BJP9	BCP-B4F	BNC-112507
CD7506	BNC-8	2065-10-9	NBNC75BTU11	BCP-B53	BNC-112565
CD7506D	BNC-8	2065-10-9	NBNC75BTU11	BCP-B53	BNC-112565
CD7506DB	BNC-8	2065-10-9	NBNC75BTU11	BCP-B53	BNC-112565
CD7506F	BNC-8	2065-10-9	NBNC75BTU11	BCP-B53	BNC-112565
CD7506P	BNC-10	2065-10-9	NBNC75BQP11	BCP-C55A	BNC-112519
CD7511	BNC-25	2065-8-9	NBLC75BVZ17	BCP-C71A	BNC-112606
CD7511P	BNC-25	2065-8-9	---	---	---
CD7523	BNC-13	2065-11-9	NBNC75BDD6	BCP-B26	BNC-112521
CD7559	BNC-1	2065-2-9	NBNC75BJP9	BCP-B4F	BNC-112507
CD7559F	BNC-1	2065-2-9	NBNC75BJP9	BCP-B4F	BNC-112507
CD7559P	BNC-6	2065-2-9	NBNC75BIJ9	BCP-32	---
DSM Series	BNC-13	2065-11-9	NBNC75BDD6	BCP-B26	BNC-112521
RCC-D Series	BNC-13	2065-11-9	NBNC75BDD6	BCP-B26	BNC-112521
RCC-HD Series	BNC-1	2065-2-9	NBNC75BJP9	BCP-B4F	BNC-112507
RG6HD5	BNC-8	2065-10-9	NBNC75BTU11	BCP-B53	BNC-112565
RGB5SP	BNC-16	2065-29-9	---	---	---
RGB6V2AP	BNC-16	2065-29-9	---	---	---

Video Cable Appendix

F-Type Connector Cross Reference

F-Type Crimp Connectors

Clark Cable Part Number	ADC Brand	Canare Brand
59x Series	CF-1	FP-C4F
CD7506	CF-8	FP-C53
CD7506D	CF-8	FP-C53
CD7506DB	CF-8	FP-C53
CD7506F	CF-8	FP-C53
CD7506P	---	FP-C55
CD7523	CF-13	---
CD7559	CF-1	FP-C4F
CD7559F	CF-1	FP-C4F
DSM Series	CF-13	---
RCC-HD Series	CF-1	FP-C4F
RG6HD5	CF-8	FP-C53

Video Cable Appendix

RCA Connector Cross Reference

RCA Crimp Connectors

Clark Cable Part Number	ADC Brand	Kings Brand	Canare Brand
59x Series	CRCA-1	3345-1-9	RCAP-C4F
CD7506	CRCA-8	3345-2-9	RCAP-C53
CD7506D	CRCA-8	3345-2-9	RCAP-C53
CD7506DB	CRCA-8	3345-2-9	RCAP-C53
CD7506F	CRCA-8	3345-2-9	RCAP-C53
CD7506P	CRCA-8	3345-2-9	RCAP-C53
CD7523	CRCA-13	3345-3-9	RCAP-C25F
CD7559	CRCA-1	3345-1-9	RCAP-C4F
CD7559F	CRCA-1	3345-1-9	RCAP-C4F
CD7559P	---	3345-1-9	RCAP-C4F
DSM Series	CRCA-13	3345-3-9	RCAP-C25F
RCC-D Series	CRCA-13	3345-3-9	RCAP-C25F
RCC-HD Series	CRCA-1	3345-1-9	RCAP-C4F
RG6HD5	CRCA-8	3345-2-9	RCAP-C53
RGB5SP	CRCA-16	3345-4-9	---
RGB6V2AP	CRCA-16	3345-4-9	---

CLARK WIRE & CABLE

CAMERA CABLE

Optical and Legacy Solutions

Clark Wire & Cable camera cables have been designed to the unique requirements of current generation and legacy camera systems. Available in hybrid fiber, triaxial copper, and multi-core designs, Clark delivers the most complete range of broadcast camera cabling solutions. Built to withstand the range of environments found in broadcast and staging applications, Clark camera cables are offered in ruggedized, direct burial, and permanent installation versions.

Made to the same precision found in Clark's video and fiber cables, Clark camera cables are engineered and tested to meet or exceed the requirements of SMPTE standards or specific camera manufacturer requirements.

Clark camera cables are also available in bulk or as pre-terminated assemblies with a variety of industry standard or custom connector options.

CLARK WIRE & CABLE

PRODUCT INDEX - CAMERA

See pages 110-120 for pre-terminated camera cable assemblies.

HFCTP

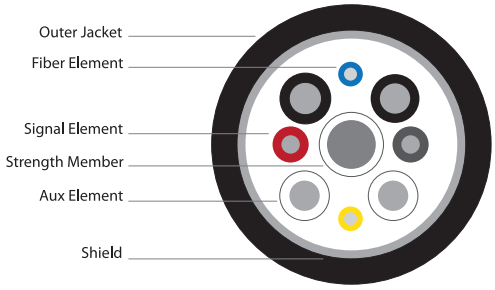
9.2mm SMPTE 311 Hybrid Fiber Camera Cable

- 9.2mm Low-Profile Diameter
- Extra-Flexible & Abrasion Resistant
- High Tensile Strength Tight Buffer
- SMPTE 311M-2009 Compliant
- Directional Arrow Printed on Jacket
- For Remote, ENG and Studio Use

Part Number: **HFCTP**
Description: 9.2mm SMPTE 311M Hybrid Fiber Camera Cable

Materials & Dimensions

Fiber Elements	(2) 8.9u Single-Mode, 900u CPE Tight Buffer (one yellow, one blue)
Aux Elements	(4) 20AWG (19 x 32AWG) TC Conductors, PE Insulation .057" O.D. (two black, two white)
Signal Elements	(2) 24AWG (7 x 32AWG) TC Conductors, PE Insulation .044" O.D. (one red, one grey)
Strength Elements	(1) 16AWG Galvanized Steel (19 x 29AWG) (white)
Shield	95% TC Braid
Outer Jacket	Abrasion Resistant, Extra Flexible TPE 9.2mm (.362") O.D.



Performance Characteristics

DC Resistance	Insulation Resistance	Dielectric Strength	Optical Attenuation	Bend Radius	Tensile Strength	Temperature Range	Weight
Aux: 9.6 Ω/Mft Signal: 23.5 Ω/Mft Shield: 5.2 Ω/Mft	Aux: >10M Ω/km Signal: >10M Ω/km	3000V RMS	<0.70 dB/km (1250nm-1625nm)	2.54"	700 N (min)	-40˚C to 75˚C	91 lbs/Mft

Clark Wire & Cable's HFCTP is a precision engineered SMPTE 311M cable designed for use in portable, studio or hostile environment applications. With two single-mode fibers for multiplexed video, audio and data, the HFCTP delivers exceptionally low-loss for HD camera to CCU interconnects. All copper conductors are insulated with a polyethylene dielectric for exceptional heat and current leakage resistance. For added durability, the two single-mode fiber elements are coated with a high tensile strength CPE tight buffer that achieves three times the tensile strength as compared to typical PVC tight buffer compounds. The outer jacket is extruded from a flexible and abrasion resistant TPE compound that is suitable for use in studio or outdoor environments.

HFCPV

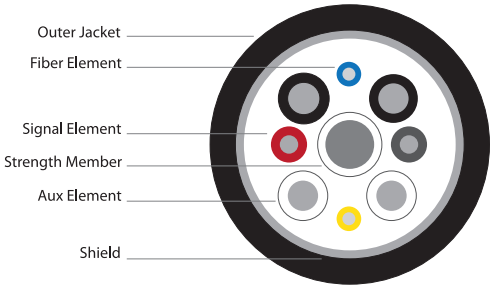
Riser Rated 9.2mm SMPTE 311 Hybrid Fiber Camera Cable

- 9.2mm Low-Profile Diameter
- High Tensile Strength Tight Buffer
- SMPTE 311M-2009 Compliant
- Directional Arrow Printed on Jacket
- Easy-to-Pull Through Conduit
- UL Listed CMR for Permanent Install

Part Number: **HFCPV**
Description: 9.2mm Riser Rated SMPTE 311M Hybrid Fiber Camera Cable

Materials & Dimensions

Fiber Elements	(2) 8.9u Single-Mode, 900u CPE Tight Buffer (one yellow, one blue)
Aux Elements	(4) 20AWG (19 x 32AWG) TC Conductors, PE Insulation .057" O.D. (two black, two white)
Signal Elements	(2) 24AWG (7 x 32AWG) TC Conductors, PE Insulation .044" O.D. (one red, one grey)
Strength Member	(1) 16AWG Galvanized Steel (19 x 29AWG) (white)
Shield	95% TC Braid
Outer Jacket	PVC 9.2mm (.362") O.D.



Performance Characteristics

DC Resistance	Insulation Resistance	Dielectric Strength	Optical Attenuation	Bend Radius	Tensile Strength	Temperature Range	Weight	UL Listing
Aux: 9.6 Ω/Mft Signal: 23.5 Ω/Mft Shield: 5.2 Ω/Mft	Aux: >10M Ω/km Signal: >10M Ω/km	3000V RMS	<0.70 dB/km (1250nm-1625nm)	2.54"	700 N (min)	-20˚C to 75˚C	91 lbs/Mft	CMR

Clark Wire & Cable's HFCPV is a precision engineered SMPTE 311M cable designed for use in permanent installation applications. With two single-mode fibers for multiplexed video, audio and data, the HFCPV delivers exceptionally low-loss for HD camera to CCU interconnects. All copper conductors are insulated with a polyethylene dielectric for exceptional heat and current leakage resistance. For added durability, the two single-mode fiber elements are coated with a high tensile strength CPE tight buffer that achieves three times the tensile strength as compared to typical PVC tight buffer compounds. The outer jacket is extruded from a flame retardant PVC compound that is easy-to-pull through conduit and UL listed CMR for permanent installation in most applications.

HFCDB

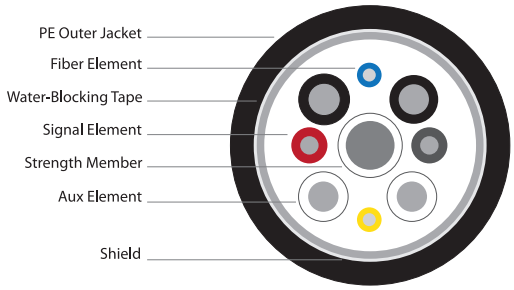
Direct Burial 9.2mm SMPTE 311 Hybrid Fiber Camera Cable

- 9.2mm Low-Profile Diameter
- High Tensile Strength Tight Buffer
- SMPTE 311M-2009 Compliant
- Directional Arrow Printed on Jacket
- Easy-to-Pull Through Conduit
- Direct Burial Construction

Part Number: **HFCDB**
Description: 9.2mm Direct Burial SMPTE 311M Hybrid Fiber Camera Cable

Materials & Dimensions

Fiber Elements	(2) 8.9u Single-Mode, 900u CPE Tight Buffer (one yellow, one blue)
Aux Elements	(4) 20AWG (19 x 32AWG) TC Conductors, PE Insulation .057" O.D. (two black, two white)
Signal Elements	(2) 24AWG (7 x 32AWG) TC Conductors, PE Insulation .044" O.D. (one red, one grey)
Strength Member	(1) 16AWG Galvanized Steel (19 x 29AWG) (white)
Shield	95% TC Braid
Barrier	Water-Blocking Tape
Outer Jacket	Black Polyethylene
Overall Diameter	9.2mm (.362") O.D.



Performance Characteristics

DC Resistance	Insulation Resistance	Dielectric Strength	Optical Attenuation	Bend Radius	Tensile Strength	Weight
Aux: 9.6 Ω/Mft Signal: 23.5 Ω/Mft Shield: 5.2 Ω/Mft	Aux: >10M Ω/km Signal: >10M Ω/km	3000V RMS	<0.70 dB/km (1250nm-1625nm)	2.54"	700 N (min)	93 lbs/Mft

Clark Wire & Cable's HFCDB is a precision engineered SMPTE 311M cable designed for use in permanent installation applications. With two single-mode fibers for multiplexed video, audio and data, the HFCDB delivers exceptionally low-loss for HD camera to CCU interconnects. All copper conductors are insulated with a polyethylene dielectric for exceptional heat and current leakage resistance. For added durability, the two single-mode fiber elements are coated with a high tensile strength CPE tight buffer that achieves three times the tensile strength as compared to typical PVC tight buffer compounds. For direct burial applications, the HFCDB features a puncture resistant polyethylene outer jacket and a water-blocking tape that wraps around the inner core to provide an additional level of protection by absorbing moisture in the event the jacket is penetrated.

CW1622

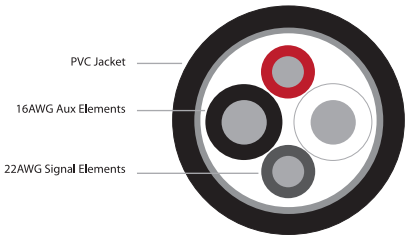
SMPTE Camera Electrical Cable

- 22AWG Signal Conductors
- 16AWG Auxiliary Conductors
- Color Coded for SMPTE Format
- Overall Braid Shield
- Ideal for SMPTE Panels and Boxes
- UL Riser Rated CMR

Part Number: **CW1622**
Description: SMPTE Camera Electrical Cable

Materials & Dimensions

Signal Elements	22AWG (19x34) TC Conductors Polyethylene Insulation, .015" wall
Aux Elements	16AWG (65x34) TC Conductors Polyethylene Insulation, .020" wall
Overall Diameter	90% TC Braid
Overall Jacket	PVC, Black



Signal Elements	Signal Color Code	Aux Elements	Aux Color Code	Overall Diameter	Weight	Bend Radius
2	Red, Grey	2	White, Black	.340"	74 lbs/Mft	3.2"

Performance Characteristics

DC Resistance	Insulation Resistance	Standard Compliance	Operating Temperature	UL Rating
Signal Conductor: 13.9 Ω/Mft *Aux Conductor:* 4.4 Ω/Mft *Shield:* 2.6 Ω/Mft	>10M Ω/km	Compliant to electrical standards for SMPTE 311M camera cables	-20˚C to 75˚C	CMR

The CW1622 is a riser rated multi-conductor cable for SMPTE camera applications in permanent installation environments. The shielded 22AWG signal and 16AWG aux elements provide the exact number and type of electrical conductors required for interconnecting all non-optical fiber elements between SMPTE 304M connectors mounted in panels or distribution boxes. UL rated type CMR, the CW1622 can be installed in most permanent installation applications.

CW1622P

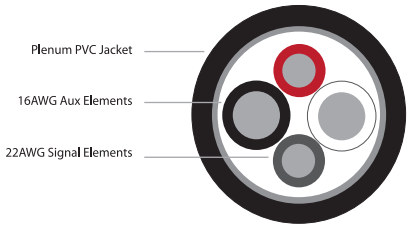
Plenum SMPTE Camera Electrical Cable

- 22AWG Signal Conductors
- 16AWG Auxiliary Conductors
- Color Coded for SMPTE Format
- Overall Braid Shield
- Ideal for SMPTE Panels and Boxes
- UL Plenum Rated CMP

Part Number: **CW1622P**
Description: Plenum SMPTE Camera Electrical Cable

Materials & Dimensions

Signal Elements	22AWG (19x34) TC Conductors FEP Insulation, .010" wall
Aux Elements	16AWG (65x34) TC Conductors FEP Insulation, .010" wall
Overall Shield	90% TC Braid
Overall Jacket	Plenum PVC, Black



Signal Elements	Signal Color Code	Aux Elements	Aux Color Code	Overall Diameter	Weight	Bend Radius
2	Red, Grey	2	White, Black	.213"	50 lbs/Mft	2.1"

Performance Characteristics

DC Resistance	Insulation Resistance	Standard Compliance	Operating Temperature	UL Rating
Signal Conductor: 13.9 Ω/Mft *Aux Conductor:* 4.4 Ω/Mft *Shield:* 2.8 Ω/Mft	>10M Ω/km	Compliant to electrical standards for SMPTE 311M camera cables	0˚C to 75˚C	CMP

The CW1622P is a plenum rated multi-conductor cable for SMPTE camera applications in permanent installation environments. The shielded 22AWG signal and 16AWG aux elements provide the exact number and type of electrical conductors required for interconnecting all non-optical fiber elements between SMPTE 304M connectors mounted in panels or distribution boxes. UL rated type CMP, the CW1622P can be installed in most plenum rated applications.

TV7559D

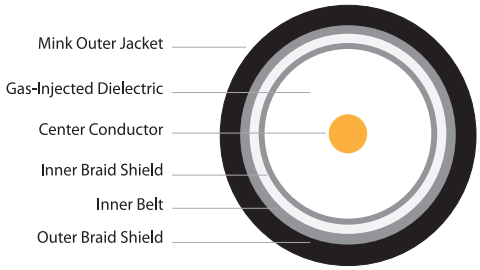
Digital 75Ω RG59 Triaxial Camera Cable

- Low-Loss RG59 Size
- 22AWG Stranded Conductor
- 3GHz Bandwidth
- Gas-Injected Dielectric
- Ultra-Flexible TPE Jacket
- Corrosion Resistant Braids

Part Number: **TV7559D**
Description: Digital 75Ω RG59 Triaxial Camera Cable

Materials & Dimensions

Center Conductor	22AWG (19x34) Stranded BC .031" O.D.
Dielectric	Gas-Injected Foam PE .146" O.D.
Inner Shield	95% TC Braid
Inner Belt	TPE, .220" O.D.
Outer Shield	95% TC Braid
Outer Jacket	TPE
Overall Diameter	.350"
Available Colors	Black (other colors available as special order)



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight
75Ω (+/-3)	>22 dB (1MHz - 1GHz) >15 dB (1GHz - 3GHz)	Conductor: 14.0 Ω/Mft Inner Shield: 2.6 Ω/Mft Outer Shield: 1.7 Ω/Mft	17.0 pF/ft	78%	124 lbs max.	2.4" min.	-35˚C to 75˚C	79 lbs/Mft

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz
Attenuation dB/100 feet	0.29	0.57	0.88	2.2	3.1	4.5	5.4	8.1	10.1	13.2	17.0	20.6
Attenuation dB/100 meters	0.95	1.9	2.9	7.2	10.2	14.8	17.7	26.6	33.1	43.3	55.8	67.6

The TV7559D is a precision RG59 triaxial cable for digital or analog camera applications. Built for modern digital video standards, the TV7559D features a gas-injected dielectric, a 3GHz bandwidth, certified return loss specifications and a precision 75Ω characteristic impedance. The center conductor is made from 22AWG stranded bare copper to improve the flex-life of cable while offering compatibility with connectors deigned for standard RG59 solid triax cables. Ideal for use in studio or remote production environments, the TV7559D outer jacket is extruded from Clark's proprietary flexible TPE compound for exceptional flexibility and abrasion resistance.

TV7559DS

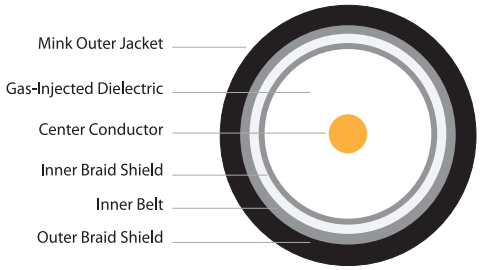
Digital 75Ω RG59 Triaxial Camera Cable - Solid Conductor

- Low-Loss RG59 Size
- 20AWG Solid Conductor
- 3GHz Bandwidth
- Gas-Injected Dielectric
- Ultra-Flexible TPE Jacket
- Corrosion Resistant Braids

Part Number: **TV7559DS**
Description: Digital 75Ω RG59 Triaxial Camera Cable - Solid Conductor

Materials & Dimensions

Center Conductor	20AWG Solid BC .032" O.D.
Dielectric	Gas-Injected Foam PE .146" O.D.
Inner Shield	95% TC Braid
Inner Belt	TPE, .220" O.D.
Outer Shield	95% TC Braid
Outer Jacket	TPE
Overall Diameter	.350"
Available Colors	Black (other colors available as special order)



Performance Characteristics

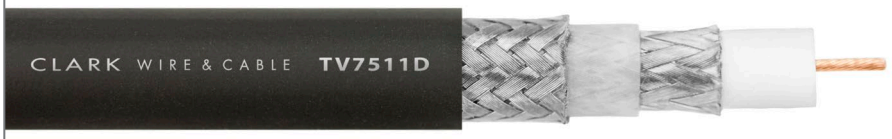
Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight
75Ω (+/-3)	>22 dB (1MHz - 1GHz) >15 dB (1GHz - 3GHz)	Conductor: 10.0 Ω/Mft Inner Shield: 2.6 Ω/Mft Outer Shield: 1.7 Ω/Mft	16.2 pF/ft	83%	124 lbs max.	2.4" min.	-35˚C to 75˚C	80 lbs/Mft

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz
Attenuation dB/100 feet	0.30	0.58	0.89	2.2	3.0	4.2	4.8	7.0	8.3	10.4	13.2	20.5
Attenuation dB/100 meters	0.98	1.9	2.9	7.2	9.8	13.8	15.7	23.0	27.2	34.1	43.3	67.2

The TV7559DS is a precision RG59 triaxial cable for digital or analog camera applications. Built for modern digital video standards, the TV7559DS features a gas-injected dielectric, a 3GHz bandwidth, certified return loss specifications and a precision 75Ω characteristic impedance. The center conductor is made from 20AWG solid copper for improved high frequency performance. Ideal for use in studio or remote production environments, the TV7559DS outer jacket is extruded from Clark's proprietary flexible TPE compound for exceptional flexibility and abrasion resistance.

TV7511D

Digital 75Ω RG11 Triaxial Camera Cable

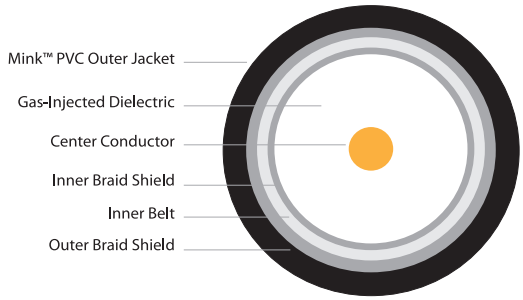


- Low-Loss RG11 Size
- 15AWG Stranded Conductor
- 1GHz Bandwidth
- Gas-Injected Dielectric
- Ultra-Flexible TPE Jacket
- Corrosion Resistant Braids

Part Number: **TV7511D**
Description: Digital 75Ω RG11 Triaxial Camera Cable

Materials & Dimensions

Center Conductor	15AWG (19x27) Stranded BC .064" O.D.
Dielectric	Gas-Injected Foam PE .312" O.D.
Inner Shield	95% TC Braid
Inner Belt	TPE, .392" O.D.
Outer Shield	95% TC Braid
Outer Jacket	TPE
Overall Diameter	.515"
Available Colors	Black (other colors available as special order)



Performance Characteristics

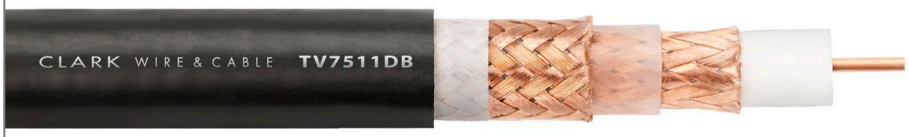
Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight
75Ω (+/-3)	>20 dB (1MHz - 1GHz)	Conductor: 2.9 Ω/Mft Inner Shield: 1.4 Ω/Mft Outer Shield: 1.5 Ω/Mft	17.1 pF/ft	78%	263 lbs max.	5.2" min.	-30˚C to 75˚C	157 lbs/Mft

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz
Attenuation dB/100 feet	0.14	0.29	0.43	1.1	1.5	2.3	2.9	4.1	5.0
Attenuation dB/100 meters	0.46	0.95	1.4	3.6	4.9	7.5	9.5	13.5	16.4

The TV7511D is a precision RG11 triaxial cable for digital or analog camera applications. Built for modern digital video standards, the TV7511D features a gas-injected dielectric, a 1GHz bandwidth, certified return loss specifications and a precision 75Ω characteristic impedance. The center conductor is made from 15AWG stranded bare copper to improve the flex-life and flexibility of the cable. Ideal for use in studio or remote production environments, the TV7511D outer jacket is extruded from Clark's flexible TPE compound that is exceptionally flexible and abrasion resistant.

TV7511DB

Digital 75Ω Direct Burial RG11 Triaxial Camera Cable

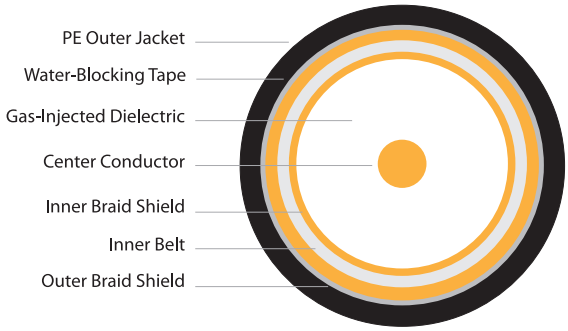


- Low-Loss RG11 Size
- 14AWG Solid Conductor
- 3GHz Bandwidth
- Gas-Injected Dielectric
- Dual Isolated Braid Shields
- Direct Burial Construction

Part Number: **TV7511DB**
Description: Digital 75Ω Direct Burial RG11 Triaxial Camera Cable

Materials & Dimensions

Center Conductor	14AWG Solid BC .064" O.D.
Dielectric	Gas-Injected Foam PE .285" O.D.
Inner Shield	95% BC Braid
Inner Belt	PVC, .365" O.D.
Outer Shield	95% BC Braid
Barrier	Water-Blocking Tape
Outer Jacket	PE
Overall Diameter	.475"
Available Colors	Black



Performance Characteristics

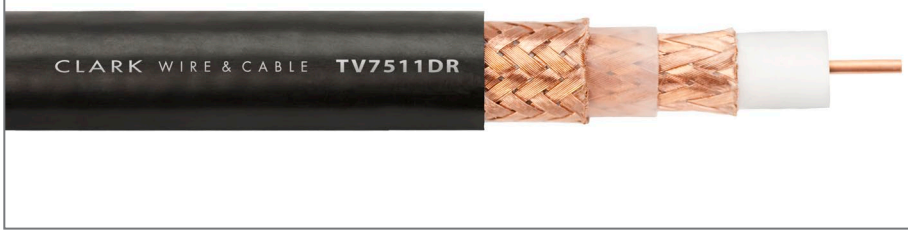
Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Weight
75Ω (+/-3)	>22 dB (1MHz - 1GHz) >15 dB (1GHz - 3GHz)	Conductor: 2.5 Ω/Mft Inner Shield: 1.6 Ω/Mft Outer Shield: 1.5 Ω/Mft	16.2 pF/ft	84%	170 lbs max.	4.8" min.	130 lbs/Mft

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz
Attenuation dB/100 feet	0.14	0.28	0.42	1.1	1.5	2.3	2.7	4.0	5.0	6.3	7.9	9.6
Attenuation dB/100 meters	0.46	0.92	1.4	3.6	4.9	7.5	10.2	8.9	16.4	20.7	25.9	31.5

The TV7511DB is a precision RG11 triaxial cable for digital or analog camera applications. Built for modern digital video standards, the TV7511DB features a gas-injected dielectric, a 3GHz bandwidth, certified return loss specifications and a precision 75Ω characteristic impedance. The center conductor is made from 14AWG solid bare copper for the lowest available attentuation in a triaxial cable. For direct burial applications, the TV7511DB features a virtually impenetrable polyethylene outer jacket and a water-blocking tape that wraps around the inner core. This construction is extremely puncture resistant and provides an additional level of protection by absorbing moisture within the water-blocking tape in the event that the jacket is penetrated.

TV7511DR

Digital 75Ω Riser Rated RG11 Triaxial Camera Cable

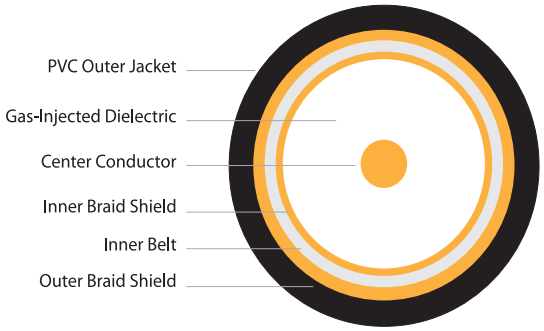


- Low-Loss RG11 Size
- 14AWG Solid Conductor
- 3GHz Bandwidth
- Gas-Injected Dielectric
- Dual Isolated Braid Shields
- UL Listed CMR

Part Number: **TV7511DR**
Description: Digital 75Ω Riser Rated RG11 Triaxial Camera Cable

Materials & Dimensions

Center Conductor	14AWG Solid BC .064" O.D.
Dielectric	Gas-Injected Foam PE .285" O.D.
Inner Shield	95% BC Braid
Inner Belt	PVC, .365" O.D.
Outer Shield	95% BC Braid
Outer Jacket	PVC
Overall Diameter	.475"
Available Colors	Black



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	UL Rating	Weight
75Ω (+/-3)	>22 dB (1MHz - 1GHz) >15 dB (1GHz - 3GHz)	Conductor: 2.5 Ω/Mft Inner Shield: 1.6 Ω/Mft Outer Shield: 1.5 Ω/Mft	16.2 pF/ft	84%	170 lbs max.	4.8" min.	-30˚C to 75˚C	CMR	128 lbs/Mft

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz
Attenuation dB/100 feet	0.14	0.28	0.42	1.1	1.5	2.3	2.7	4.0	5.0	6.3	7.9	9.6
Attenuation dB/100 meters	0.46	0.92	1.4	3.6	4.9	7.5	10.2	13.1	16.4	20.7	25.9	31.5

The TV7511DR is a precision RG11 triaxial cable for digital or analog camera applications. Built for modern digital video standards, the TV7511DR features a gas-injected dielectric, a 3GHz bandwidth, certified return loss specifications and a precision 75Ω characteristic impedance. The center conductor is made from 14AWG solid bare copper for the lowest available attentuation in a triaxial cable. UL listed CMR, the TV7511DR can be permanantly installed in enviroments that require riser rated cables.

TV7511DP

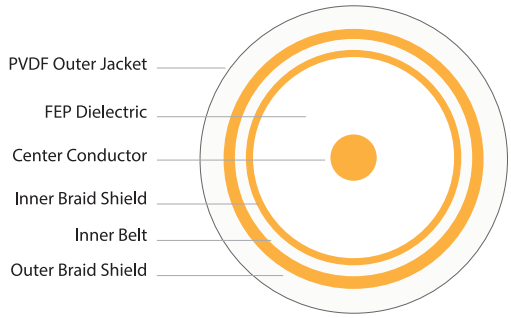
Digital 75Ω RG11 Plenum Triaxial Camera Cable

- Low-Loss RG11 Size
- 14AWG Solid Conductor
- 3GHz Bandwidth
- Gas-Injected Dielectric
- Dual Isolated Braid Shields
- UL CMP Plenum Rated

Part Number: **TV7511DP**
Description: Digital 75Ω RG11 Plenum Triaxial Camera Cable

Materials & Dimensions

Center Conductor	14AWG Solid BC .064" O.D.
Dielectric	Foam FEP .285" O.D.
Inner Shield	95% BC Braid
Inner Belt	PVDF, .350" O.D.
Outer Shield	90% BC Braid
Outer Jacket	PVDF
Overall Diameter	.415"
Available Colors	White



Performance Characteristics

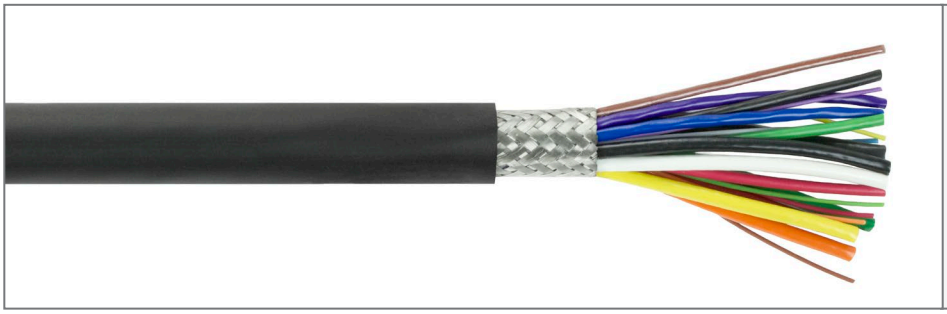
Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	UL Rating	Weight
75Ω (+/-3)	>20 dB (1MHz - 1GHz) >15 dB (1GHz - 3GHz)	Conductor: 2.5 Ω/Mft Inner Shield: 1.6 Ω/Mft Outer Shield: 1.6 Ω/Mft	16.2 pF/ft	84%	170 lbs max.	4.2" min.	CMP	150 lbs/Mft

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz
Attenuation dB/100 feet	0.14	0.25	0.40	1.2	1.9	2.9	3.4	5.3	6.9	8.9	12.0	14.9
Attenuation dB/100 meters	0.46	0.82	1.3	3.9	6.2	9.5	11.2	17.4	22.6	29.2	39.4	48.9

The TV7511DP is a precision RG11 triaxial cable for digital or analog camera applications. Built for modern digital video standards, the TV7511DP features a foam FEP dielectric, a 3GHz bandwidth, certified return loss specifications and a precision 75Ω characteristic impedance. The center conductor is made from 14AWG solid bare copper for the lowest available attentuation in a triaxial cable. For plenum installation applications, the TV7511DP features high temperature PVDF and FEP compounds to achieve a UL CMP rating.

CCU-PRO26D

Mutli-Core Cable for 26-Pin Digital Camera Systems



- 23AWG HD/SDI Coax
- 28AWG 75Ω and 50Ω Coaxes
- 16AWG, 26AWG, 28AWG Conductors
- Flexible and Rugged TPE Jacket
- For Digital and Analog 26-Pin Cameras
- For Use with Clark CCU Connectors

Part Number: **CCU-PRO26D**
Description: Multi-Core Cable for 26-Pin Digital Cameras

Materials & Dimensions

75Ω-23AWG Coax Element	**Number of Elements: 1** 23AWG (Solid) Bare Copper Conductor Foam Polyethylene Dielectric .110" O.D. 100% Foil Shield & 90% TC Braid Shield PVC Jacket, .155" O.D.	**Color Code:** Grey
75Ω-28AWG Coax Elements	**Number of Elements: 6** 28 AWG (7x36) TC Conductor Foam Polyethylene Dielectric, .064" O.D. 90% TC Braid Shield PVC Jacket .100" O.D.	**Color Code:** Green, Red, Orange, Yellow, White, Black
50Ω-28AWG Coax Element	**Number of Elements: 1** 28AWG (7x36) TC Conductor PVC Dielectric, .038" O.D. 95% TC Spiral Shield PVC Jacket .070" O.D.	**Color Code:** Brown
16AWG Conductors	**Number of Elements: 4** 16AWG (65x34) TC Conductor PVC Insulation, .077" O.D.	**Color Code:** Black, White, Red, Green
26AWG Conductors	**Number of Elements: 9** 26AWG (7x34) TC Conductor PVC Insulation, .031" O.D.	**Color Code:** Blue, White, Violet, Yellow, Black, Red, Brown, Orange, Green
28AWG Twisted Pairs:	**Number of Elements: 2** (2) 28 AWG (7x36) TC Conductor (per pair) Polyethylene Insulation, .028" O.D. 95% TC Spiral Shield PVC Jacket .084" O.D.	**Color Code:** Blue, Purple
Overall Shield	85% TC Braid Shield	
Overall Jacket	Black TPE, .580" O.D.	

Performance Characteristics

Impedance	DC Resistance	Vel. of Prop.	Operating Temperature	Weight
Coax Elements: 75Ω - 23AWG 75Ω - 28AWG .100" O.D. 50Ω - 28AWG .070" O.D.	23AWG Solid BC Conductor: 20.0 Ω/Mft 26AWG (7x34) TC Conductor: 38.5 Ω/Mft 28AWG (7x36) TC Conductor: 61.0 Ω/Mft 16AWG (65x34) TC Conductor: 4.3 Ω/Mft	75Ω - 23AWG *Coax Element:* 77% 75Ω - 28AWG *Coax Element:* 77%	-30˚C to 75˚C	215 lbs/Mft

Camera Cable Appendix

Triax Connector to Clark Cable Cross Reference

TV7559D and TV7559DS Triax Connectors

Connector Type	ADC Brand	Kings Brand
MALE: In-Line	ATCP-B38	7705-2
MALE: Panel Mount	ATCP-B38 (with yoke mount)	7702-2 (front mount)
FEMALE: In-Line	ATCJ-B38	7703-2
FEMALE: Panel Mount	ATCJ-B38 (with yoke mount)	7702-5 (front mount), 7702-8 (rear mount)

TV7511D Triax Connectors

Connector Type	ADC Brand	Kings Brand
MALE: In-Line	ATCP-C12	7705-3
MALE: Panel Mount	ATCP-C12 (with yoke mount)	7702-3 (front mount)
FEMALE: In-Line	ATCJ-C12	7703-3
FEMALE: Panel Mount	ATCJ-C12 (with yoke mount)	7702-6 (front mount), 7702-9 (rear mount)

TV7511DR and TV7511DB Triax Connectors

Connector Type	ADC Brand	Kings Brand
MALE: In-Line	ATCP-A12	7705-1
MALE: Panel Mount	ATCP-A12 (with yoke mount)	7702-1 (front mount)
FEMALE: In-Line	ATCJ-A12	7703-1
FEMALE: Panel Mount	ATCJ-A12 (with yoke mount)	7702-4 (front mount), 7702-7 (rear mount)

TV7511DP Triax Connectors

Connector Type	ADC Brand	Kings Brand
MALE: In-Line	ATCP-D38	7705-6
MALE: Panel Mount	ATCP-D38 (with yoke mount)	7702-14
FEMALE: In-Line	ATCJ-D38	7703-8
FEMALE: Panel Mount	ATCJ-D38 (with yoke mount)	7702-15

Camera Cable Appendix

SMPTE 304M Connector to Clark Cable Cross Reference

SMPTE 304M Connectors

Connector Type	Lemo Brand	Kings Brand
PLUGS		
In-Line	FUW.3K.93W.TLMC96	7765-3-3
Panel Mount	FMW.3K.93C.TLMC96Z	7765-400-F1102
SOCKETS		
In-Line	PUW.3K.93C.TLCC96	7763-3-3
Panel Mount (square flange)	PBW.3K.93C.TLCC96Z	7763-400-F1102
Panel Mount (round flange)	PEW.3K.93C.TLCC96Z	7763-400-F1103

CLARK WIRE & CABLE

AUDIO CABLE

Clear and Quiet

Clark Wire & Cable audio cables are specifically designed for professional audio systems in recording, staging and broadcast applications. Engineered for low-noise, audio clarity and ease-of-termination, Clark audio cables deliver the performance required for critical audio interconnections.

Available in multi-pair and single-pair constructions, many Clark audio cables feature dual-purpose and rated jacket compounds that are both extra-flexible for portable use and UL rated for permanent installation. Clark's studio and staging audio cables use an ultra-flexible TPE or Mink™ PVC for maximum flexibility and abrasion resistance.

Clark audio cables can also be ordered as terminated cable assemblies with a variety of industry standard or custom connector options.

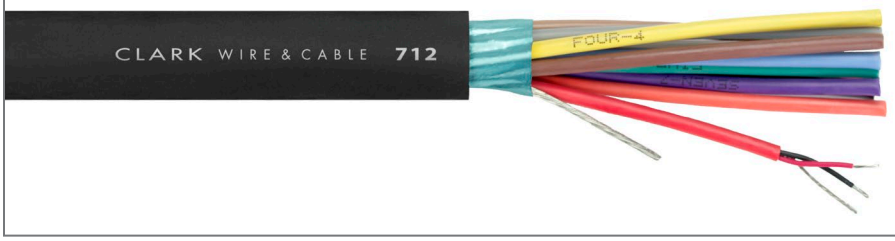
CLARK WIRE & CABLE

PRODUCT INDEX - AUDIO

See pages 134-139 for pre-terminated audio cable assemblies.

700 Series

22 AWG Multi-Pair Audio Cable

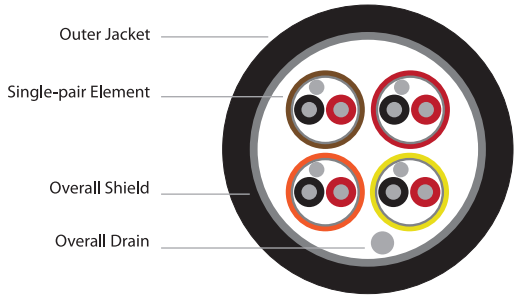


- Extra-Flexible and UL Rated
- Easy-to-Strip and Terminate
- Low-Wick Insulation
- 22AWG Tinned Copper Conductors
- Color Coded Pair Jackets
- CMR Riser Rated

Part Number: **7xx** (see below for variations)
Description: 22AWG Multi-Pair Audio Snake Cables

Materials & Dimensions

Conductors	(2) 22AWG (7 x 30) Stranded TC (per pair)
Insulation	Polypropylene .010" wall, (one black, one red)
Shield	100% Alum/Mylar Foil (Easy-Strip Bonded) w/ 22AWG (7 x 30) Stranded TC Drain Wire
Pair Jacket	PVC, .136" O.D. Color Coded (see chart #1)
Overall Shield	100% Alum/Mylar Foil with 16AWG (19 x 29) Stranded TC Drain Wire
Overall Jacket	Black TPE (see below for individual cable O.D.)



Performance Characteristics

DC Resistance	Capacitance	Temperature Range	UL Listing
Conductor: 14.1 Ω/Mft Shield w/ Drain: 12.5 Ω/Mft	25.7 pF/ft between conductors 47.3 pF/ft between one conductor and other in common with shield	-30 °C to 75°C	CMR

Product Variations

Part Number	Pair Count	Overall Diameter	Weight	Bend Radius
704	4 pair	.425"	116 lbs/Mft	4.3"
706	6 pair	.507"	157 lbs/Mft	5.1"
708	8 pair	.580"	187 lbs/Mft	5.3"
712	12 pair	.665"	255 lbs/Mft	6.7"
716	16 pair	.825"	344 lbs/Mft	7.2"
724	24 pair	.984"	496 lbs/Mft	9.8"
728	28 pair	1.100"	575 lbs/Mft	10.1"

Clark's 700 series multi-pair audio cables deliver multi-purpose performance for field, stage and permanent installation applications. Extra-flexible and easy-to-terminate, the 700 series is both installer and user friendly. The individual audio pairs are color coded and alphanumerically printed for easy identification. Conductors are tinned-copper and insulated with low-wick polypropylene insulation for easy solderability. UL rated and extra-flexible, the 700 series features Clark's unique TPE outer jacket compound that is flexible, abrasion resistant and CMR riser rated.

700-DB Series

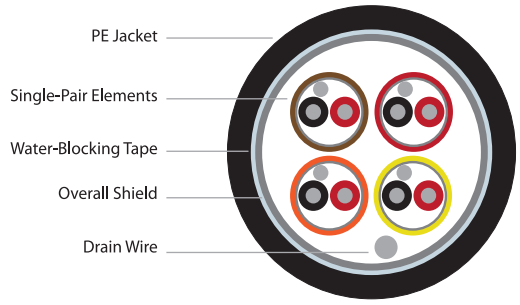
Direct Burial 22AWG Multi-Pair Audio Cables

- Direct Burial Construction
- Easy-to-Strip Single-Pair Elements
- Low-Wick Insulation
- 22AWG Tinned Copper Conductors
- Color Coded Pair Jackets
- PE Jacket with Water-Blocking Tape

Part Number: **7xx-DB** (see below for variations)
Description: Direct Burial 22AWG Multi-Pair Audio Cables

Materials & Dimensions

Conductors	(2) 22AWG (7 x 30) Stranded TC (per pair)
Insulation	Polypropylene .010" wall, (one black, one red)
Shield	100% Alum/Mylar Foil (Easy-Strip Bonded) w/ 22AWG (7 x 30) Stranded TC Drain Wire
Pair Jacket	PVC, .136" O.D. Color Coded (see chart #1)
Overall Shield	100% Alum/Mylar Foil with 16AWG (19 x 29) Stranded TC Drain Wire
Barrier	Water-Blocking Tape
Overall Jacket	Black PE (see below for individual cable O.D.)



Performance Characteristics

DC Resistance	Capacitance
Conductor: 14.1 Ω/Mft Shield w/ Drain: 12.5 Ω/Mft	25.7 pF/ft between conductors 47.3 pF/ft between one conductor and other in common with shield

Product Variations

Part Number	Pair Count	Overall Diameter	Weight
704-DB	4 pair	.425"	120 lbs/Mft
706-DB	6 pair	.507"	161 lbs/Mft
708-DB	8 pair	.580"	190 lbs/Mft
712-DB	12 pair	.665"	259 lbs/Mft
716-DB	16 pair	.720"	350 lbs/Mft
724-DB	24 pair	.984"	505 lbs/Mft
728-DB	28 pair	1.100"	590 lbs/Mft

Clark's 700-DB series multi-pair audio cables are built specifically for direct burial, permanent installation applications. The 700-DB series features the same easy-to-terminate single-pair components as Clark's original 700 series, but with a virtually impenetrable polyethylene outer jacket and the addition of a water-blocking tape that wraps around the inner core. This construction is extremely puncture resistant and provides an additional level of protection by absorbing moisture within the water-blocking tape in the event that the jacket is penetrated.

SPA22GS

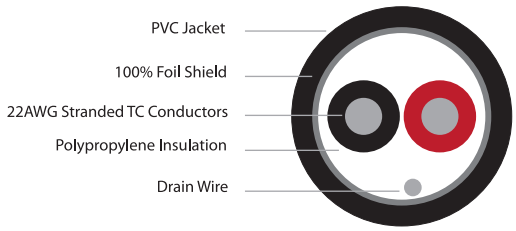
22AWG Single-Pair Audio Cable

- Easy-to-Strip Jacket
- Excellent Noise Rejection
- Corrosion Resistant Tinned Copper
- 100% Foil Shield w/ Drain Wire
- UL Riser Rated CMR

Part Number: **SPA22GS**
Description: Low Noise 22AWG Single-Pair Audio Cable

Materials & Dimensions

Conductors	(2) 22AWG (7 x 30) Stranded TC
Insulation	Polypropylene, .008" wall, (one red, one black)
Shield	100% Foil with 22AWG (7 x 30) Stranded TC Drain Wire
Jacket	Flexible PVC, .137" O.D.
Available Colors	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White



Performance Characteristics

DC Resistance	Capacitance	Temperature Range	Weight	UL Listing
Conductor: 14.4 Ω/Mft Shield w/ Drain: 12.5 Ω/Mft	25.7 pF/ft between conductors 47.3 pF/ft between one conductor and other in common with shield	-20 °C to 75°C	14 lbs/Mft	CMR

Clark's SPA22GS is a low-noise, single-pair audio cable for balanced line level or microphone level applications. Easy to terminate, the SPA22GS features several timesaving features, such as a bonded easy-strip shield and tinned copper conductors that streamline the cable termination process. Excellent common-mode and RF/EMI noise rejection are achieved by a precision twisted pair and 100% foil shield. UL rated CMR for riser applications, the SPA22GS can be installed in a variety of permanent installation environments.

SPA22GSP

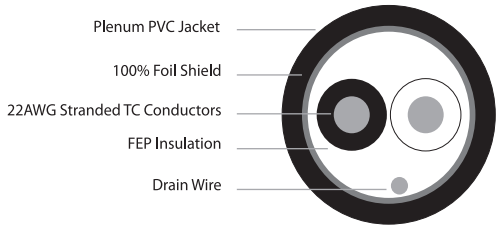
Plenum 22AWG Single-Pair Audio Cable

- Easy-to-Strip Jacket
- Excellent Noise Rejection
- Corrosion Resistant Tinned Copper
- 100% Foil Shield w/ Drain Wire
- UL Plenum Rated CMP

Part Number: **SPA22GSP**
Description: Plenum 22AWG Single-Pair Audio Cable

Materials & Dimensions

Conductors	(2) 22AWG (7 x 30) Stranded TC
Insulation	FEP, .010" wall, (one white, one black)
Shield	100% Foil (bonded) with 24AWG (7 x 32) Stranded TC Drain Wire
Jacket	Plenum PVC, .132" O.D.
Color	Black



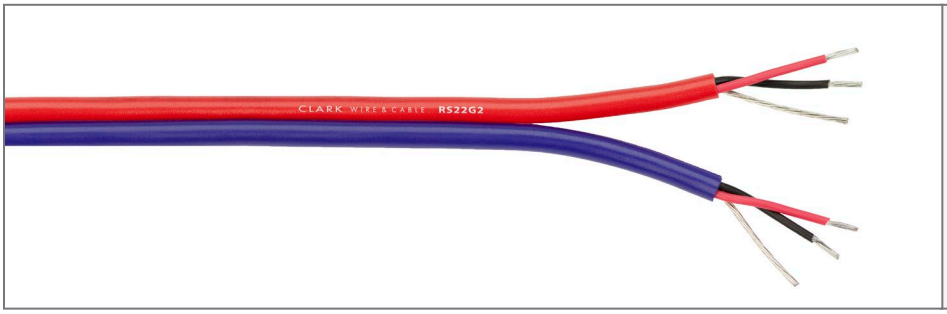
Performance Characteristics

DC Resistance	Capacitance	Temperature Range	Weight	UL Listing
Conductor: 14.4 Ω/Mft Shield w/ Drain: 22.0 Ω/Mft	28.0 pF/ft between conductors 49.5 pF/ft between one conductor and other in common with shield	0 ˚C to 75˚C	12 lbs/Mft	CMP

Clark's SPA22GSP is a low-noise, single-pair audio cable for balanced line level or microphone applications. Easy to terminate, the SPA22GSP offers several timesaving features, such as a bonded easy-strip shield and tinned copper conductors that streamline the cable termination process. Excellent common-mode and RF/EMI noise rejection are achieved by a precision twisted pair and 100% foil shield. UL rated CMP for plenum applications, the SPA22GSP can be installed in a variety of permanent installation environments.

RS22G2

22AWG Dual-Pair Audio Cable

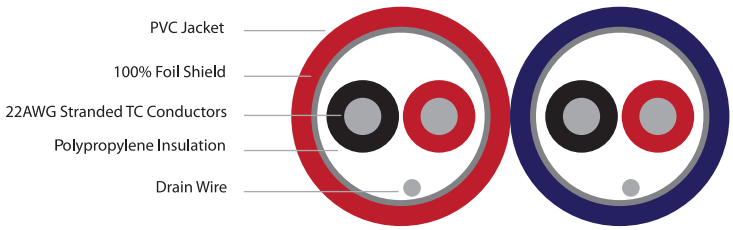


- Easy-to-Strip Jacket with Bonded Pairs
- Corrosion Resistant Tinned Copper
- 100% Foil Shield w/ Drain Wire
- Multiple Color Options
- UL Riser Rated CMR

Part Number: **RS22G2**
Description: 22AWG Dual-Pair Audio Cable

Materials & Dimensions

Conductors	(2) 22AWG (7 x 30) Stranded TC
Insulation	Polypropylene, .008" wall, (one red, one black)
Shield	100% Foil with 22AWG (7 x 30) Stranded TC Drain Wire
Number of Pair	2 (bonded with full pair color coding)
Jacket	Flexible PVC, .137" x .278" O.D.
Available Colors	Black & Blue, Black & Red, Red & Green, or Red & Lavender



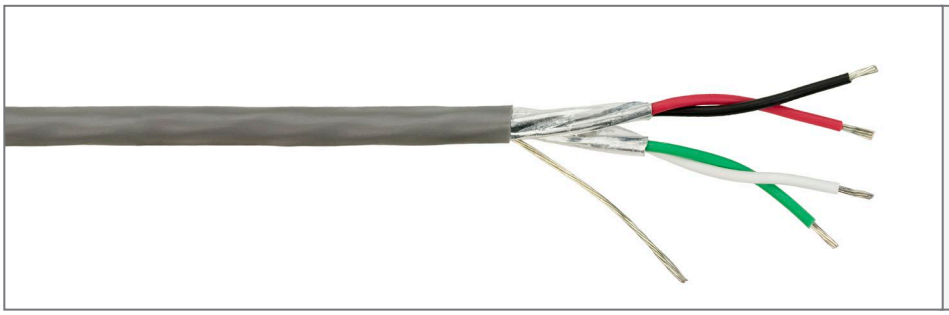
Performance Characteristics

DC Resistance	Capacitance	Temperature Range	Weight	UL Listing
Conductor: 14.4 Ω/Mft Shield w/ Drain: 12.5 Ω/Mft	25.7 pF/ft between conductors 47.3 pF/ft between one conductor and other in common with shield	-20 °C to 75°C	28 lbs/Mft	CMR

Clark's RS22G2 is a low-noise, dual-pair audio cable for balanced line level or microphone level applications. Easy to terminate, the RS22G2 offers several timesaving features, such as a bonded easy-strip shield and tinned copper conductors that streamline the cable termination process. Excellent common-mode and RF/EMI noise rejection are achieved by a precision twisted pair and 100% foil shield. UL rated CMR for riser applications, the RS22G2 can be installed in a variety of permanent installation environments.

22EPS2

22AWG Two-Pair Shielded Audio Cable

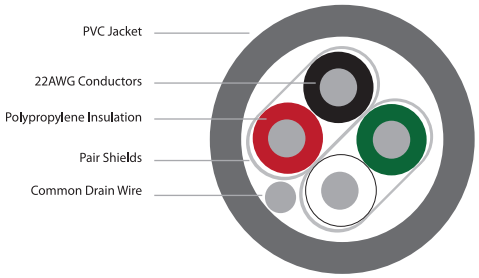


- Two 22AWG Shielded Pairs
- Corrosion Resistant Tinned Copper
- 100% Foil Shield
- Common Drain
- UL Rated CM

Part Number: **22EPS2**
Description: 22AWG Shielded Two-Pair Cable

Materials & Dimensions

Conductors	(4) 22AWG (7 x 30) Stranded TC (cabled as two shielded pairs)
Insulation	Polypropylene, .010" wall, (red & black, white & green)
Shield	100% Foil (per pair) with 24AWG (7 x 32) Stranded TC Drain Wire (drain wire is common for both shields)
Jacket	Flexible PVC, .163" O.D.
Color	Grey



Performance Characteristics

DC Resistance	Capacitance	Temperature Range	Weight	UL Listing
Conductor: 14.4 Ω/Mft Shield w/ Drain: 22.0 Ω/Mft	25.0 pF/ft between conductors	-20˚C to 75˚C	18 lbs/Mft	CM

Clark's 22EPS2 is a two-pair shielded cable for balanced audio, data or control applications. Each conductor is made from 22AWG tinned copper for low DCR, corrosion resistance and improved solder adhesion. The conductors are insulated with a polypropylene dielectric that has lower capacitance and a higher melt temperature for reduced wick-back when soldering. UL rated CM, the 22EPS2 can be installed in a variety of permanent installation environments.

22EPS2P

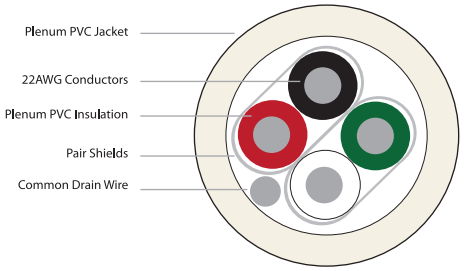
22AWG Plenum Two-Pair Shielded Audio Cable

- Two 22AWG Shielded Pairs
- Corrosion Resistant Tinned Copper
- 100% Foil Shield
- Common Drain
- UL Plenum Rated CMP

Part Number: **22EPS2P**
Description: 22AWG Plenum Shielded Two-Pair Cable

Materials & Dimensions

Conductors	(4) 22AWG (7 x 30) Stranded TC (cabled as two shielded pairs)
Insulation	Plenum PVC .010" wall, (red & black, white & green)
Shield	100% Foil (per pair) with 24AWG (7 x 32) Stranded TC Drain Wire (drain wire is common for both shields)
Jacket	Flexible Plenum PVC, .162" O.D.
Color	White



Performance Characteristics

DC Resistance	Capacitance	Temperature Range	Weight	UL Listing
Conductor: 14.4 Ω/Mft Shield w/ Drain: 22.0 Ω/Mft	46.6 pF/ft between conductors	0 °C to 75°C	20 lbs/Mft	CMP

Clark's 22EPS2P is a two-pair shielded cable for balanced audio, data or control applications. Each conductor is made from 22AWG tinned copper for low DCR, corrosion resistance and improved solder adhesion. The conductors are insulated with a plenum PVC dielectric that is easy-to-strip and terminate. UL plenum rated CMP, the 22EPS2P can be installed in a variety of permanent installation environments.

800 Series

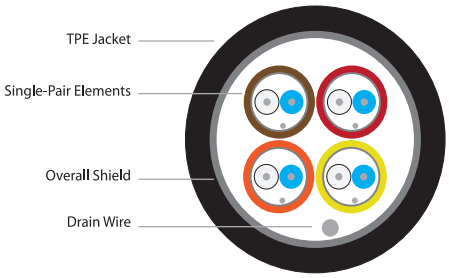
110Ω AES/EBU 24AWG Multi-Pair Audio Cables

- Extra-Flexible and UL Rated
- Easy-to-Strip and Terminate
- 110Ω Characteristic Impedance
- Low-Loss 24AWG Conductors
- Color Coded Pair Jackets
- CMR Riser Rated

Part Number: **8xx** (see below for variations)
Description: 110Ω AES/EBU 24AWG Multi-Pair Audio Cables

Materials & Dimensions

Conductors	(2) 24AWG (7 x 32) Stranded TC (per pair)
Insulation	Foam Polypropylene .023" wall, (one white, one blue)
Shield	100% Alum/Mylar Foil (Easy-Strip Bonded) w/ 24AWG (7 x 32) Stranded TC Drain Wire
Pair Jacket	PVC, .182" O.D. Color Coded (see chart #2)
Overall Shield	100% Alum/Mylar Foil with 18AWG (16 x 30) Stranded TC Drain Wire
Overall Jacket	Black TPE (see below for individual cable O.D.)



Performance Characteristics

DC Resistance	Capacitance	Characteristic Impedance	Temperature Range	UL Listing
Conductor: 23.5 Ω/Mft Shield w/ Drain: 22.0 Ω/Mft	12.0 pF/ft between conductors 21.6 pF/ft between one conductor and other in common with shield	110Ω	-30 ˚C to 75˚C	CMR

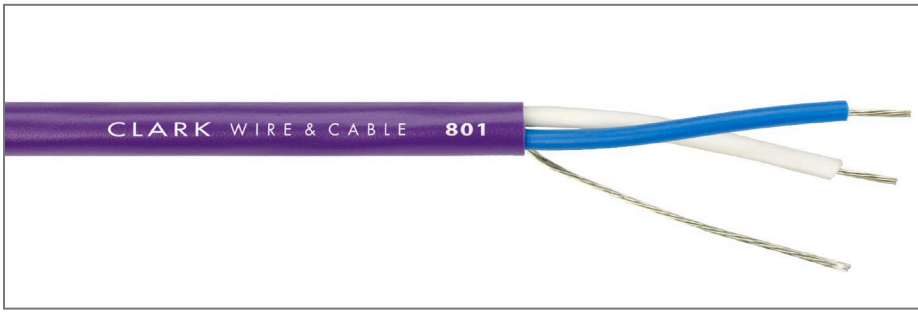
Product Variations

Part Number	Pair Count	Overall Diameter	Weight	Bend Radius
804	4 pair	.550"	135 lbs/Mft	5.5"
808	8 pair	.715"	233 lbs/Mft	7.2"
812	12 pair	.883"	337 lbs/Mft	8.9"
816	16 pair	1.01"	440 lbs/Mft	10.1"

Clark's 800 Series AES/EBU digital audio multi-pair cables deliver precision 110Ω data-grade single-pair elements in a snake cable configuration for high density applications. Built for precision impedance matching and low attenuation, each single-pair element has 24AWG tinned copper conductors, precision data-grade pair twisting and a 110Ω characteristic impedance. To streamline installation, each pair has a color coded and alpha-numerically printed pair jacket that is easy-to-strip and bonded to the foil shield. Extra-flexible and UL rated CMR, the 800 series can be used in portable applications or installed in a variety of permanent installation environments.

801

24AWG AES/EBU Digital Audio Single-Pair Cable

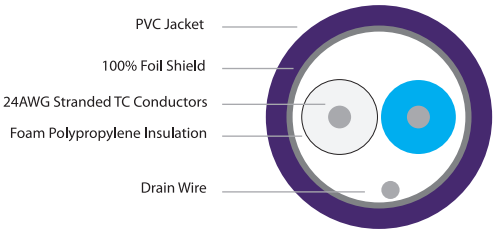


- Low-Loss 24AWG Size
- Easy-to-Strip Jacket
- 110Ω Characteristic Impedance
- 100% Foil Shield w/ Drain Wire
- UL Rated CM

Part Number: **801**
Description: 24AWG AES/EBU Digital Audio Single-Pair Cable

Materials & Dimensions

Conductors	(2) 24AWG (7 x 32) Stranded TC
Insulation	Foam Polypropylene, .023" wall, (one white, one blue)
Shield	100% Foil with 24AWG (7 x 32) Stranded TC Drain Wire
Jacket	Flexible PVC, .173" O.D.
Available Colors	Black or Violet



Performance Characteristics

DC Resistance	Capacitance	Characteristic Impedance	Temperature Range	Weight	UL Listing
Conductor: 23.5 Ω/Mft Shield w/ Drain: 22.0 Ω/Mft	12.0 pF/ft between conductors 21.6 pF/ft between one conductor and other in common with shield	110Ω	-20 ˚C to 75˚C	13 lbs/Mft	CM

Frequency	1 MHz	3 MHz	6 MHz	12 MHz	25 MHz
Attenuation dB/100 feet	0.91	1.29	1.58	2.12	4.01
Attenuation dB/100 meters	2.98	4.23	5.18	6.95	13.2

Clark's 801 is a low-loss 110Ω data cable for AES/EBU digital audio applications. Easy to terminate, the 801 features a bonded easy-strip shield and tinned copper conductors that streamline cable termination. Excellent common-mode and RF/EMI noise rejection are achieved by a precision twisted pair and 100% foil shield. For impedance matching in data transmission applications, the 801 has a precision 110Ω characteristic impedance. UL rated CM, the 801 can be installed in a variety of permanent installation environments.

802

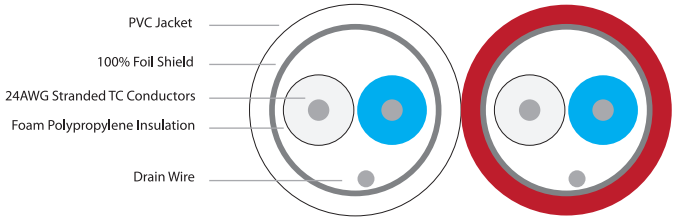
24AWG AES/EBU Digital Audio Dual-Pair Cable

- Low-Loss 24AWG Size
- Easy-to-Strip Jacket
- 110Ω Characteristic Impedance
- 100% Foil Shield w/ Drain Wire
- UL Rated CM

Part Number: **802**
Description: 24AWG AES/EBU Digital Audio Dual-Pair Cable

Materials & Dimensions

Conductors	(2) 24AWG (7 x 32) Stranded TC (per pair)
Insulation	Foam Polypropylene, .023" wall, (one white, one blue)
Shield	100% Foil with 24AWG (7 x 32) Stranded TC Drain Wire
Number of Pairs	2 (bonded with full pair color coding)
Jacket	Flexible PVC, .173" x .350" O.D.
Color	One Channel Red, One Channel White



Performance Characteristics

DC Resistance	Capacitance	Characteristic Impedance	Temperature Range	Weight	UL Listing
Conductor: 23.5 Ω/Mft Shield w/ Drain: 22.0 Ω/Mft	12.0 pF/ft between conductors 21.6 pF/ft between one conductor and other in common with shield	110Ω	-20 ˚C to 75˚C	26 lbs/Mft	CM

Frequency	1 MHz	3 MHz	6 MHz	12 MHz	25 MHz
Attenuation dB/100 feet	0.91	1.29	1.58	2.12	4.01
Attenuation dB/100 meters	2.98	4.23	5.18	6.95	13.2

Clark's 802 is a low-loss 110Ω data cable for AES/EBU digital audio applications. Easy to terminate, the 802 features a bonded easy-strip shield and tinned copper conductors that streamline cable termination. Excellent common-mode and RF/EMI noise rejection are achieved by a precision twisted pair and 100% foil shield. For impedance matching in data transmission applications, the 802 has a precision 110Ω characteristic impedance. UL rated CM, the 802 can be installed in a variety of permanent installation environments.

900 Series

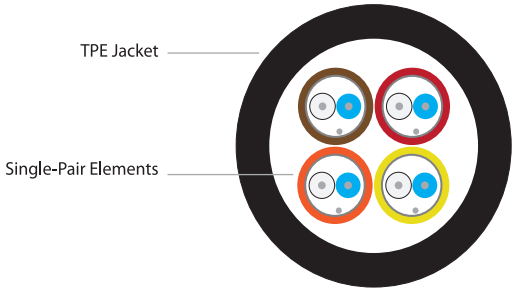
110Ω AES/EBU 26AWG Multi-Pair Audio Cables

- Extra-Flexible and UL Rated
- Easy-to-Strip and Terminate
- 110Ω Characteristic Impedance
- Low-Loss 26AWG Conductors
- Color Coded Pair Jackets
- CMR Riser Rated

Part Number: **9xx** (see below for variations)
Description: 110Ω AES/EBU 26AWG Multi-Pair Audio Cables

Materials & Dimensions

Conductors	(2) 26AWG (7 x 34) Stranded TC (per pair)
Insulation	Foam Polypropylene .015" wall, (one white, one blue)
Shield	100% Alum/Mylar Foil (Easy-Strip Bonded) w/ 26AWG (7 x 34) Stranded TC Drain Wire
Pair Jacket	PVC, .143" O.D. Color Coded (see chart #2)
Overall Jacket	Black TPE (see below for individual cable O.D.)



Performance Characteristics

DC Resistance	Capacitance	Characteristic Impedance	Temperature Range	UL Listing
Conductor: 38.5 Ω/Mft Shield w/ Drain: 35.2 Ω/Mft	12.5 pF/ft between conductors 22.5 pF/ft between one conductor and other in common with shield	110Ω	-30 ˚C to 75˚C	CMR

Frequency	1 MHz	3 MHz	6 MHz	12 MHz	25 MHz
Attenuation dB/100 feet	1.23	1.86	2.37	3.16	4.18
Attenuation dB/100 meters	4.04	6.10	7.77	10.4	13.7

Product Variations

Part Number	Pair Count	Overall Diameter	Weight	Bend Radius
904	4 pair	.420"	83 lbs/Mft	4.2"
908	8 pair	.528"	146 lbs/Mft	5.3"
912	12 pair	.640"	210 lbs/Mft	6.4"
916	16 pair	.722"	271 lbs/Mft	7.3"
924	24 pair	1.019"	472 lbs/Mft	10.2"

Clark's 900 Series AES/EBU digital audio multi-pair cables deliver precision 110Ω data-grade single-pair elements in a snake cable configuration for high density applications. Built for precision impedance matching and low attenuation, each single-pair element has 26AWG tinned copper conductors, precision data-grade pair twisting and a 110Ω characteristic impedance. To streamline installation, each pair has a color coded and alpha-numerically printed pair jacket that is easy-to-strip and bonded to the foil shield. Extra-flexible and UL rated CMR, the 900 series can be used in portable applications or installed in a variety of permanent installation environments.

901

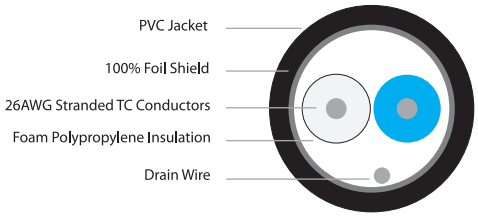
26AWG AES/EBU Digital Audio Single-Pair Cable

- Thin Profile 26AWG Size
- Easy-to-Strip Jacket
- 110Ω Characteristic Impedance
- 100% Foil Shield w/ Drain Wire
- UL Riser Rated CMR

Part Number: **901**
Description: 26AWG AES/EBU Digital Audio Single-Pair Cable

Materials & Dimensions

Conductors	(2) 26AWG (7 x 34) Stranded TC
Insulation	Foam Polypropylene, .015" wall, (one white, one blue)
Shield	100% Foil with 26AWG (7 x 34) Stranded TC Drain Wire
Jacket	Flexible PVC, .155" O.D.
Colors	Black



Performance Characteristics

DC Resistance	Capacitance	Characteristic Impedance	Temperature Range	Weight	UL Listing
Conductor: 38.5 Ω/Mft Shield w/ Drain: 35.2 Ω/Mft	11.5 pF/ft between conductors 20.7 pF/ft between one conductor and other in common with shield	110Ω	-20 ˚C to 75˚C	11 lbs/Mft	CMR

Frequency	1 MHz	3 MHz	6 MHz	12 MHz	25 MHz
Attenuation dB/100 feet	1.23	1.86	2.37	3.16	4.18
Attenuation dB/100 meters	4.04	6.10	7.77	10.4	13.7

Clark's 901 is a thin profile 110Ω data cable for AES/EBU digital audio applications. Easy to terminate, the 901 features a bonded easy-strip shield and tinned copper conductors that streamline cable termination. Excellent common-mode and RF/EMI noise rejection are achieved by a precision twisted pair and 100% foil shield. For impedance matching in data transmission applications, the 901 has a precision 110Ω characteristic impedance. UL rated CMR for riser applications, the 901 can be installed in a variety of permanent installation environments.

FF220

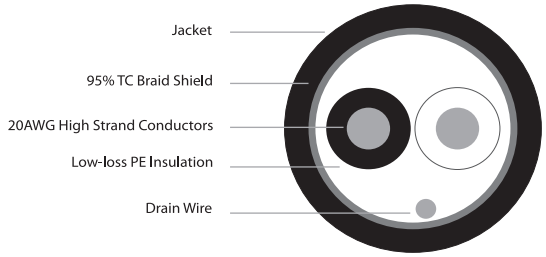
20AWG FieldFlex™ Microphone Cable

- Ultra-Flexible MINK™ Jacket
- Heavy Duty Construction
- Low-Loss 20AWG Conductors
- 95% Braid w/ Drain Wire
- Corrosion Resistant Copper

Part Number: **FF220**
Description: Heavy Duty 20AWG FieldFlex™ Microphone Cable

Materials & Dimensions

Conductors	(2) 20AWG (41 x 36) Stranded TC
Insulation	Polyethylene .018" wall, (one black, one white)
Shield	95% TC Braid with 24AWG (41 x 40) Stranded TC Drain Wire
Jacket	Ultra-Flexible Matte PVC, .280" O.D.
Available Colors	Black



Performance Characteristics

DC Resistance	Capacitance	Temperature Range	Weight
Conductor: 10.1 Ω/Mft Shield w/ Drain: 3.8 Ω/Mft	25.7 pF/ft between conductors 47.3 pF/ft between one conductor and other in common with shield	-35 °C to 75°C	47 lbs/Mft

Clark's FF220 FieldFlex™ microphone cable delivers both flexibility and durability for staging, studio, or hostile environment applications. The high strand 20AWG conductors (41 strands per conductor), have exceptional flexibility, flex-life and low DC resistance. For enhanced common-mode and RF/EMI rejection, the FF220 features tight-twist balanced pairs that are shielded with a 95% corrosion resistant braid and drain wire. The outer jacket is extruded from an ultra-flexible matte PVC compound that has both exceptional flexibility and abrasion resistance characteristics.

MINK4™

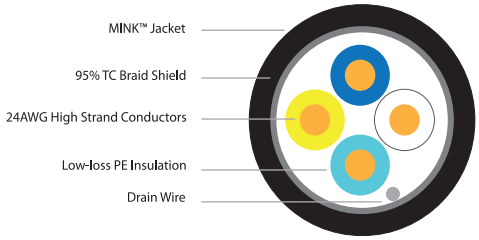
24AWG Quad Microphone Cable

- Ultra-Flexible MINK™ Jacket
- Exceptional RF/EMI Rejection
- Color Coded Pairs for Easy ID
- 95% Braid w/ Drain Wire
- Corrosion Resistant Braid

Part Number: **MINK4**
Description: Quad 24AWG Low-Noise Microphone Cable

Materials & Dimensions

Conductors	(4) 24AWG (41 x 40) Stranded BC
Insulation	Polyethylene, .015" wall, (blue & light blue, white & yellow)
Shield	95% TC Braid with 24AWG (7 x 32) Stranded TC Drain Wire
Jacket	MINK™ Ultra-Flexible Matte PVC, .236" O.D.
Color	Black



Performance Characteristics

DC Resistance	Capacitance	Temperature Range	Weight
Conductor: 25.4 Ω/Mft Shield w/ Drain: 5.2 Ω/Mft	39 pF/ft between conductors 57 pF/ft between one conductor and other in common with shield	-35 ˚C to 75˚C	41 lbs/Mft

Clark's MINK4™ quad microphone cable achieves exceptional RF/EMI noise rejection through it's double-balanced, four conductor design. For additional flex-life and flexibility, the MINK4 features finely stranded 24AWG (41 strands of 40AWG) copper conductors. To streamline cable termination, the MINK4 has a drain wire in addition to the 95% corrosion resistant braid to allow for faster ground/shield connector termination. Extremely flaccid and memory resistant, the MINK4 uses Clark's proprietary MINK™ matte PVC jacket compound that is both ultra-flexible and abrasion resistant.

SF224

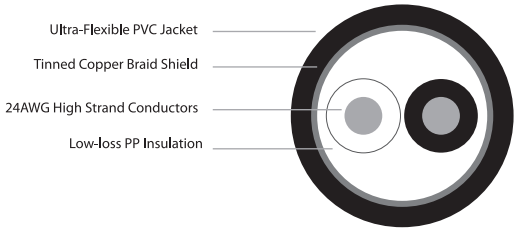
24AWG StudioFlex™ Thin Profile Microphone Cable

- Ultra-Flexible PVC Jacket
- Thin Profile 24AWG Conductors
- Exceptional Flex-Life
- 95% Braid Shield
- Corrosion Resistant Copper

Part Number: **SF224**
Description: Thin Profile 24AWG StudioFlex™ Microphone Cable

Materials & Dimensions

Conductors	(2) 24AWG (41 x 40) Stranded TC
Insulation	Polypropylene .012" wall, (one black, one white)
Shield	95% TC Braid
Jacket	Flexible Matte PVC, .190" O.D.
Color	Black



Performance Characteristics

DC Resistance	Capacitance	Temperature Range	Weight
Conductor: 25.4 Ω/Mft Shield: 6.0 Ω/Mft	20.5 pF/ft between conductors 36.8 pF/ft between one conductor and other in common with shield	-20 °C to 75°C	24 lbs/Mft

Clark's StudioFlex™ SF224 is a thin-profile, ultra-flexible microphone cable for applications and connectors that require a reduced diameter or weight. The high strand 24AWG conductors have exceptional flexibility and flex-life. For enhanced common-mode and RF/EMI rejection, the SF224 features tightly-twisted balanced pairs that are shielded with a corrosion resistant tinned copper braid. The outer jacket is extruded from a flexible matte PVC compound that is both flexible and abrasion resistant.

SPKR1202

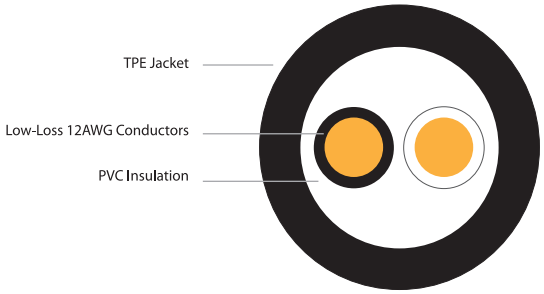
Two Conductor Portable Speaker Cable

- Ultra-Flexible TPE Jacket
- Heavy Duty Construction
- Two 12AWG Conductors
- Abrasion Resistant
- High-Strand Copper

Part Number: **SPKR1202**
Description: Two Conductor 12AWG Portable Speaker Cable

Materials & Dimensions

Conductors	(2) 12AWG (65 x 30) Stranded BC
Insulation	PVC .020" wall, (one black, one white)
Jacket	Ultra-Flexible TPE, .380" O.D.
Color	Black



Performance Characteristics

DC Resistance	Temperature Range	Weight
Conductor: 1.6 Ω/Mft	-25˚C to 60˚C	90 lbs/Mft

Clark's SPKR1202 speaker cable has been designed for use in portable, studio and staging applications. Built with large, finely stranded 12AWG conductors, the construction of the SPKR1202 minimizes power loss through the cable yet offers exceptional flexibility and flex-life. The outer jacket is extruded from a TPE compound that is ultra-flexible, rugged and abrasion resistant. With a round overall construction, the SPKR1202 can be readily terminated to both 1/4" phone plugs and multi-pole speaker connectors such as Neutrik® speakOn® types.

SPKR1304

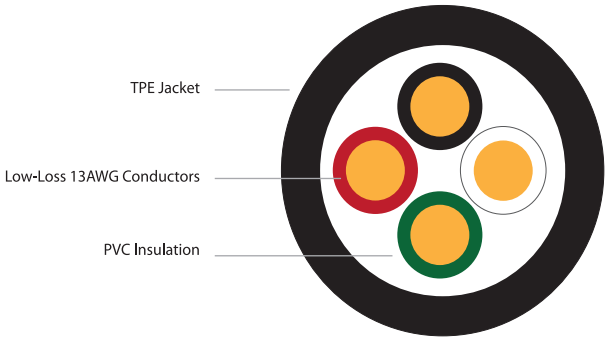
Four Conductor Portable Speaker Cable

- Ultra-Flexible TPE Jacket
- Heavy Duty Construction
- Four 13AWG Conductors
- Abrasion Resistant
- High-Strand Copper

Part Number: **SPKR1304**
Description: Four Conductor 13AWG Portable Speaker Cable

Materials & Dimensions

Conductors	(4) 13AWG (52 x 30) Stranded BC
Insulation	PVC .023" wall, (black, white, red & green)
Jacket	Ultra-Flexible TPE, .430" O.D.
Color	Black



Performance Characteristics

DC Resistance	Temperature Range	Weight
Conductor: 2.2 Ω/Mft	-25˚C to 60˚C	128 lbs/Mft

Clark's SPKR1304 speaker cable has been designed for use in portable, studio and staging applications. Built with large, finely stranded 13AWG conductors, the construction of the SPKR1304 minimizes power loss through the cable yet offers exceptional flexibility and flex-life. The outer jacket is extruded from a TPE compound that is ultra-flexible, rugged and abrasion resistant. With a round overall construction, the SPKR1304 can be readily terminated to multi-pole speaker connectors such as Neutrik® speakOn® types.

SPKR1308

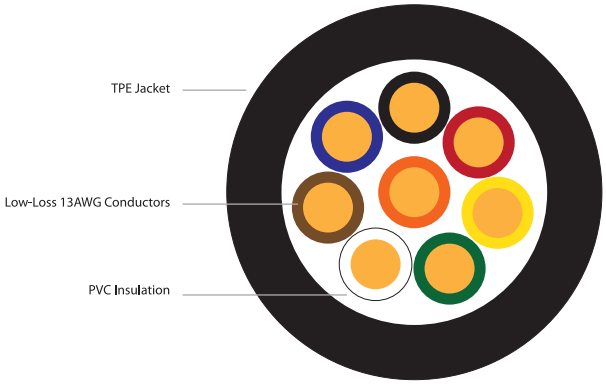
Eight Conductor Portable Speaker Cable

- Ultra-Flexible TPE Jacket
- Heavy Duty Construction
- Eight 13AWG Conductors
- Abrasion Resistant
- High-Strand Copper

Part Number: **SPKR1308**
Description: Eight Conductor 13AWG Portable Speaker Cable

Materials & Dimensions

Conductors	(8) 13AWG (52 x 30) Stranded BC
Insulation	PVC .026" wall, (black, white, red, green, yellow, orange, blue & brown)
Jacket	Ultra-Flexible TPE, .580" O.D.
Colors	Black



Performance Characteristics

DC Resistance	Temperature Range	Weight
Conductor: 2.2 Ω/Mft	-30˚C to 75˚C	260 lbs/Mft

Clark's SPKR1308 speaker cable has been designed for use in portable, studio and staging applications. Built with large, finely stranded 13AWG conductors, the construction of the SPKR1308 minimizes power loss through the cable yet offers exceptional flexibility and flex-life. The outer jacket is extruded from a TPE compound that is ultra-flexible, rugged and abrasion resistant. With a round overall construction, the SPKR1308 can be readily terminated to multi-pole speaker connectors such as Neutrik® speakOn® types.

CW Series

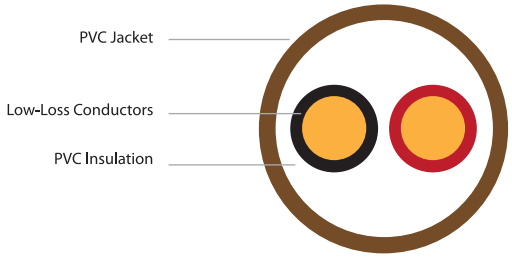
Permanent Installation Speaker Cables

- Stranded BC Conductors
- PVC Insulation
- Low Friction Outer Jacket
- Easy-to-Strip
- UL Riser Rated CL2R

Part Number: **CW Series** (see below for variations)
Description: Permanent Installation Speaker Cables

Materials & Dimensions

Conductors	(2) Stranded BC (see below for AWG types)
Insulations	PVC, .015" (red & black)
Jacket	PVC
Colors	Varies



Performance Characteristics

UL Rating	Temperature Range
CL2R	-20˚C to 75˚C

Product Variations

Part Number	Conductor	DC Resistance	Overall Diameter	Bend Radius	Weight
CW1202	12AWG (19x25)	1.8 Ω/Mft	.250"	2.5"	59 lbs/Mft
CW1402	14AWG (19x27)	2.8 Ω/Mft	.210"	2.1"	37 lbs/Mft
CW1602	16AWG (19x29)	4.5 Ω/Mft	.182"	1.8"	26 lbs/Mft
CW1802	18AWG (19x30)	6.0 Ω/Mft	.166"	1.6"	19 lbs/Mft

The CW series is an easy-to-install, commercial grade speaker cable for permanent installation in walls or conduit. Built with large copper conductors, the CW series minimizes power loss and attenuation through the cable. The outer jacket is extruded from a flexible PVC that is easy-to-strip and has a low friction finish that is easy to pull through conduit. UL rated type CL2R, the CW series can be installed variety of environments.

CW-P Series

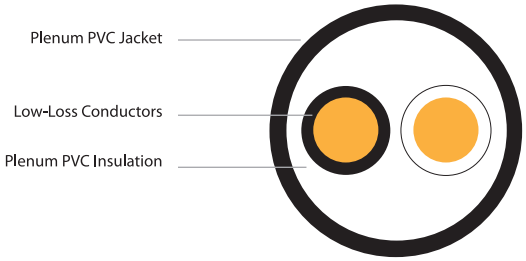
Plenum Permanent Installation Speaker Cables

- Stranded BC Conductors
- Plenum PVC Insulation
- Low Friction Outer Jacket
- Easy-to-Strip
- UL Plenum Rated CL2P

Part Number: **CW-P Series** (see below for variations)
Description: Plenum Permanent Installation Speaker Cables

Materials & Dimensions

Conductors	(2) Stranded BC (see below for AWG types)
Insulation	Plenum PVC, .015" (white & black)
Jacket	Plenum PVC
Color	Varies



Performance Characteristics

UL Rating	Temperature Range
CL2P	-0˚C to 75˚C

Product Variations

Part Number	Conductor	DC Resistance	Overall Diameter	Bend Radius	Weight
CW1202P	12AWG (19x25)	1.8 Ω/Mft	.250"	2.5"	61 lbs/Mft
CW1402P	14AWG (19x27)	2.8 Ω/Mft	.210"	2.1"	39 lbs/Mft
CW1602P	16AWG (19x29)	4.5 Ω/Mft	.182"	1.8"	28 lbs/Mft
CW1802P	18AWG (19x30)	6.0 Ω/Mft	.166"	1.6"	20 lbs/Mft

The CW-P series is an easy-to-install, commercial grade speaker cable for permanent installation in walls or conduit. Built with large copper conductors, the CW-P series minimizes power loss and attenuation through the cable. The outer jacket is extruded from a flexible PVC that is easy-to-strip and has a low friction finish that is easy to pull through conduit. UL rated type CL2P, the CW-P series can be installed variety of environments.

Audio Cable Appendix

Common Audio Connector Part Numbers

XLR Connectors

Connector Gender and Finish	Switchcraft Brand	Neutrik Brand
MALE INLINE		
Nickel Shell	A3M or AAA3MZ	NC3MX or NC3MXX
Black Shell	A3MB or AAA3MBZ	NC3MX-BAG or NC3MXX-BAG
Black Shell w/ Gold Contacts	A3MBAU or AAA3MBAUZ	NC3MX-B or NC3MXX-B
MALE PANEL MOUNT		
Nickel Shell	D3M	NC3MD-L-1
Black Shell	D3MB	NC3MD-L-BAG-1
Black Shell w/ Gold Contacts	D3MBAU	NC3MD-L-B-1
FEMALE INLINE		
Nickel Shell	A3F or AAA3FZ	NC3FX or NC3FXX
Black Shell	A3FBX or AAA3FBZ	NC3FX-BAG or NC3FXX-BAG
Black Shell w/ Gold Contacts	A3FBXAU or AAA3FBAUZ	NC3FX-B or NC3FXX-B
FEMALE PANEL MOUNT		
Nickel Shell	D3F	NC3FD-L-1
Black Shell	D3FBX	NC3FD-L-BAG-1
Black Shell w/ Gold Contacts	D3FBXAU	NC3FD-L-B-1

1/4" Phone Connectors

Connector Gender and Finish	Switchcraft Brand	Neutrik Brand
MALE T.R.S.		
Nickel Shell	297	NP3X
Black Shell	---	NP3X-BAG
Black Shell w/ Gold Contacts	---	NP3X-B
MALE T.S.		
Nickel Shell	280 (small), 188 (large)	NP2X
Black Shell	---	NP2X-BAG
Black Shell w/ Gold Contacts	---	NP2X-B

Audio Cable Appendix

Multi-Pair Element Color Codes and Common Pinouts

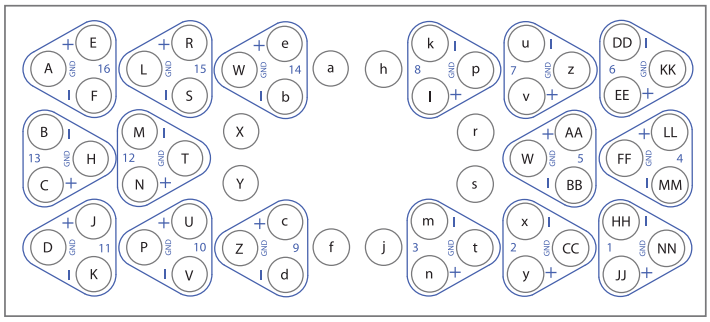
Multi-Pair Element Color Code Chart #1 (700 Series)

Channel	Jacket Color	Channel	Jacket Color	Channel	Jacket Color	Channel	Jacket Color
1	Brown	**7**	Violet	**13**	Brown	**19**	Violet
2	Red	**8**	Grey	**14**	Red	**20**	Grey
3	Orange	**9**	White	**15**	Orange	**21**	White
4	Yellow	**10**	Black	**16**	Yellow	**22**	Black
5	Green	**11**	Tan	**17**	Green	**23**	Tan
6	Blue	**12**	Pink	**18**	Blue	**24**	Pink

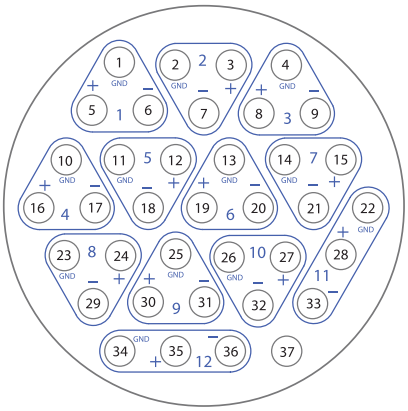
Multi-Pair Element Color Code Chart #2 (800 & 900 Series)

Channel	Jacket Color	Channel	Jacket Color	Channel	Jacket Color	Channel	Jacket Color
1	Brown	**5**	Green	**9**	White	**13**	Light Green
2	Red	**6**	Blue	**10**	Black	**14**	Dark Blue
3	Orange	**7**	Violet	**11**	Tan	**15**	Purple
4	Yellow	**8**	Gray	**12**	Pink	**16**	Ivory

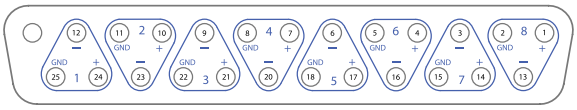
EDAC-56 16 Channel Pinout



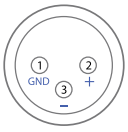
DT12-FK37 12 Channel Pinout



D-Sub 25 8 Channel Pinout



XLR 3-Pin



The above diagrams show some of the standard and common pinout configuration for each respective connector. Due to legacy formats and alternate manufacturer configurations, these pinouts may not always be universal. Please consult the manual or manufacturer of the interfacing equipment to determine the exact pinout configuration.

CLARK WIRE & CABLE

OPTICAL CABLE

Next Generation Transports

Clark Wire & Cable optical cables deliver the bandwidth required for high-speed data and next-generation audio and video formats. Available in single-mode, 62.5u multi-mode OM1, and 50u multi-mode OM2, OM3, and OM4 types, Clark optical cables are built for the high data-rate demands of 10Gb/s data, 2k/4k/8k UHDTV, and proprietary multiplexed AV formats.

With both tactical and permanent installation types, Clark optical cables deliver solutions for both harsh environments and structured wiring installations. Also available pre-terminated, Clark optical cables can be ordered as cable assemblies with a variety of industry standard or custom connector options.

CLARK WIRE & CABLE

PRODUCT INDEX - FIBER

See pages 121-133 for pre-terminated fiber cable assemblies.

DMT-T Series

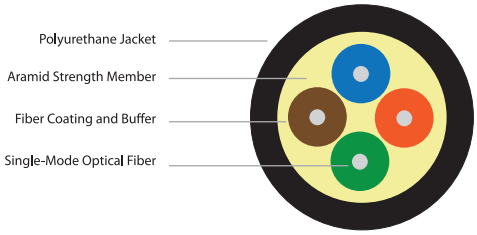
Tactical Distribution Optical Fiber Cables

- Heavy Duty Tactical Construction
- Single-Mode or Multi-Mode
- High Strength Coating and Buffer
- Overall Aramid Strength Member
- Polyurethane Jacket
- 2, 4, 6, 8 or 12 Fiber Elements

Part Number: **CWF-DMTxxx**T** (see below for variations)
Description: Tactical Distribution Optical Fiber Cable

Materials & Dimensions

Fiber Type and Part Number Code	**SM** = Single-Mode 9um. Bend Tolerant **MM** = Multi-Mode 62.5um OM1 **MM5** = Multi-Mode 50u OM2 **MM53** = Multi-Mode 50u OM3 **MM54** = Multi-Mode 50u OM4
Cladding	Glass, 125um diameter
Primary Coating	UV Cured Acrylate, 500um diameter
Secondary Buffer	Hard Elastomeric Tight Buffer, 900um diameter
Overall Strength Member	Aramid Yarn
Overall Jacket	Polyurethane
Color	Black



Performance Characteristics

Cyclic Flexing	Impact Resistance	Crush Resistance	Fiber Proof Test Level	Operating Temperatures
2000 (EIA-455-104)	200 (EIA/TIA-455-25)	2000 N/cm (EIA/TIA-455-41)	100 kpsi	-46˚C to 85˚C

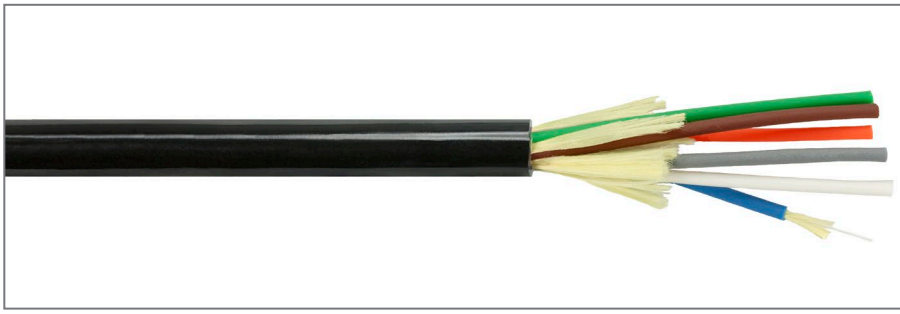
Product Variations

Part Number	Number of Elements	Fiber Color Code	Overall Diameter	Weight	Bend Radius (min.)	Tensile Load (max.)
CWF-DMT002T**	2	blue, orange	.230"	21 lbs/Mft	2.3" - Operating	325 lbs - Installation 66 lbs - Long Term
CWF-DMT004T**	4	blue, orange, green, brown	.230"	22 lbs/Mft	2.3" - Operating	325 lbs - Installation 66 lbs - Long Term
CWF-DMT006T**	6	blue, orange, green, brown, grey, white	.240"	23 lbs/Mft	2.4" - Operating	325 lbs - Installation 66 lbs - Long Term
CWF-DMT012T**	12	blue, orange, green, brown, grey, white, red, black, yellow, purple, rose, aqua	.280"	32 lbs/Mft	2.8" - Operating	394 lbs - Installation 79 lbs - Long Term

The DMT-T series are optical fiber cables in a heavy-duty tactical construction. Built for use in portable or hostile environments, the DMT-T cables feature a rugged polyurethane outer jacket, an aramid strength member, and high strength fiber coatings and buffers. The single-mode versions are made from bend tolerant glass that is less susceptible to micro-bending attenuation. Together these materials deliver significantly improved flex-life, crush resistance and tensile strength when compared to typical permanent installation multi-strand fiber cables. The DMT-T series is available in two, four, six, eight and twelve strand versions.

BMT-T Series

Tactical Breakout Optical Fiber Cables

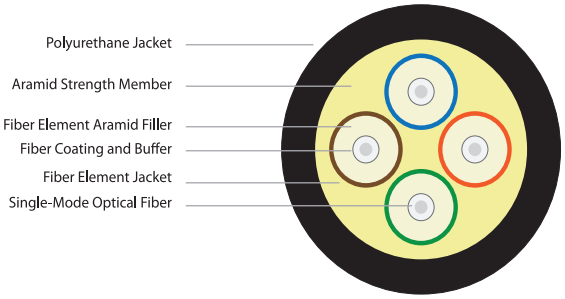


- Heavy Duty Tactical Construction
- Individual Fiber Jackets
- Single-Mode or Multi-Mode
- Aramid Strength Member
- Polyurethane Jacket
- 2, 4, 6, 8 or 12 Fiber Elements

Part Number: **CWF-BMTxxx**T** (see below for variations)
Description: Tactical Breakout Optical Fiber Cables

Materials & Dimensions

Fiber Type and Part Number Code	**SM** = Single-Mode 9um. Bend Tolerant **MM** = Multi-Mode 62.5um OM1 **MM5** = Multi-Mode 50u OM2 **MM53** = Multi-Mode 50u OM3 **MM54** = Multi-Mode 50u OM4
Cladding	Glass, 125um diameter
Primary Coating	UV Cured Acrylate, 245um diameter
Secondary Buffer	Hard Elastomeric Tight Buffer, 900um diameter
Element Strength Member	Aramid Yarn (per fiber element)
Element Jacket	Elastomer, 2.0mm O.D. (per fiber element)
Overall Strength Member	Aramid Yarn
Overall Jacket	Black Polyurethane



Performance Characteristics

Impact Resistance	Crush Resistance	Fiber Proof Test Level	Operating Temperatures
1500 impacts (EIA-455-25A)	2100 N/cm (EIA-455-41A)	100 kpsi	-40˚C to 85˚C

Product Variations

Part Number	Number of Elements	Fiber Color Code	Overall Diameter	Weight	Bend Radius (min.)	Tensile Load (max.)
CWF-BMT002T**	2	blue, orange	.260"	24 lbs/Mft	4.1" - Installation 3.2" - Operating	490 lbs - Installation 120 lbs - Operating
CWF-BMT004T**	4	blue, orange, green, brown	.300"	32 lbs/Mft	4.7" - Installation 2.4" - Operating	490 lbs - Installation 120 lbs - Operating
CWF-BMT006T**	6	blue, orange, green, brown, grey, white	.330"	37 lbs/Mft	5.4" - Installation 2.7" - Operating	540 lbs - Installation 130 lbs - Operating
CWF-BMT008T**	8	blue, orange, green, brown, grey, white, red, black	.390"	51 lbs/Mft	6.3" - Installation 3.1" - Operating	720 lbs - Installation 180 lbs - Operating
CWF-BMT012T**	12	blue, orange, green, brown, grey, white, red, black, yellow, purple, rose, aqua	.480"	59 lbs/Mft	6.9" - Installation 3.5" - Operating	1080 lbs - Installation 270 lbs - Operating

The BMT-T series are optical fiber cables in a heavy-duty tactical construction. Built for use in portable or hostile environments, the BMT-T cables feature a rugged polyurethane outer jacket, individual fiber jackets and aramid filler, an overall aramid strength member, and high strength fiber coatings and buffers. The single-mode versions are made from bend tolerant glass that is less susceptible to micro-bending attenuation. Together these materials deliver significantly improved flex-life, crush resistance and tensile strength when compared to typical permanent installation multi-strand fiber cables. The DMT-T series is available in two, four, six, eight and twelve strand versions.

DR Series

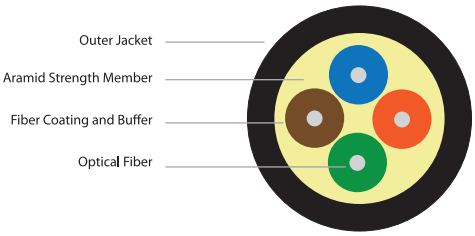
Riser Rated Distribution Indoor/Outdoor Optical Fiber Cables

- Indoor or Outdoor Use
- Permanent Installation
- Single-Mode or Multi-Mode
- Overall Aramid Strength Member
- 2 - 24 Fiber Elements
- OFNR Riser Rated

Part Number: **CWF-Dxxx**R** (see below for variations)
Description: Riser Rated Indoor/Outdoor Optical Fiber Distribution Cables

Materials & Dimensions

Fiber Type and Part Number Code	**SM** = Single-Mode 9um **MM** = Multi-Mode 62.5um OM1 **MM5** = Multi-Mode 50u OM2 **MM53** = Multi-Mode 50u OM3 **MM54** = Multi-Mode 50u OM4
Cladding	Glass, 125um diameter
Primary Coating	UV Cured Acrylate, 245um diameter
Secondary Buffer	PVC, 900um diameter
Overall Strength Member	Aramid Yarn
Overall Jacket	PVC (black or yellow)



Performance Characteristics

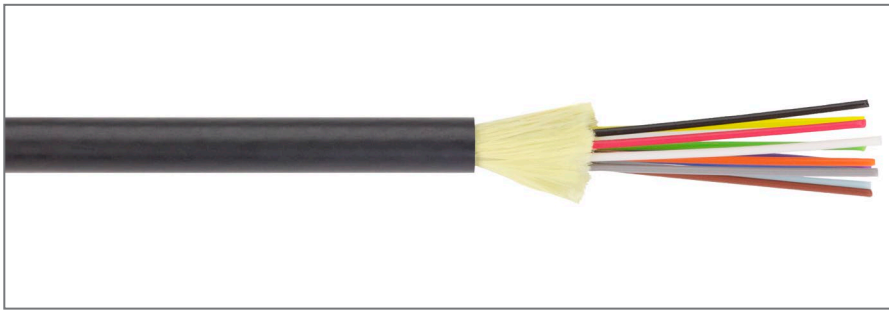
Testing Standard	Fiber Proof Test Level	Ratings amd Approvals	Operating Temperature	Listing
GR 409	100 kpsi	Moisture, Fungus, and UV Resistant GR-20-CORE, EIA/TIA 568-A, GR-409-CORE, ICEA-S-104-696	-40˚C to 75˚C	(UL) OFNR (CSA) FT-4

Product Variations

Part Number	Number of Elements	Fiber Color Code	Overall Diameter	Weight	Bend Radius (min.)	Tensile Load (max.)
CWF-D002R**	2	blue, orange	.190"	14 lbs/Mft	2.8" - Installation 1.9" - Operating	150 lbs - Installation 45 lbs - Operating
CWF-D004R**	4	blue, orange, green, brown	.190"	15 lbs/Mft	2.8" - Installation 1.9" - Operating	150 lbs - Installation 45 lbs - Operating
CWF-D006R**	6	blue, orange, green, brown, grey, white	.210"	19 lbs/Mft	3.1" - Installation 2.1" - Operating	150 lbs - Installation 45 lbs - Operating
CWF-D008R**	8	blue, orange, green, brown, grey, white, red, black	.220"	23 lbs/Mft	3.3" - Installation 2.2" - Operating	150 lbs - Installation 45 lbs - Operating
CWF-D012R**	12	blue, orange, green, brown, grey, white, red, black, yellow, purple, rose, aqua	.260"	26 lbs/Mft	3.5" - Installation 2.6" - Operating	150 lbs - Installation 45 lbs - Operating
CWF-D018R**	18	same as 12 strand, #13 repeats at blue with continuous dashed markings	.310"	40 lbs/Mft	4.7" - Installation 3.1" - Operating	300 lbs - Installation 90 lbs - Operating
CWF-D024R**	24	same as 12 strand, #13 repeats at blue with continuous dashed markings	.330"	46 lbs/Mft	5.2" - Installation 3.4" - Operating	300 lbs - Installation 90 lbs - Operating

DP Series

Plenum Rated Distribution Indoor Optical Fiber Cables

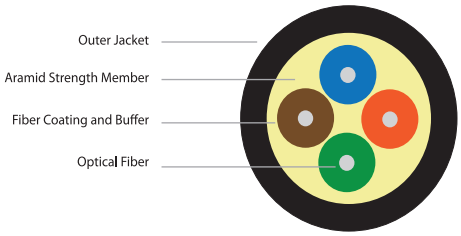


- Indoor or Outdoor Use
- Single-Mode or Multi-Mode
- Overall Aramid Strength Member
- 2 - 24 Fiber Elements
- Flexible Jacket
- OFNP Plenum Rated

Part Number: **CWF-Dxxx**P** (see below for variations)
Description: Plenum Rated Distribution Indoor/Outdoor Optical Fiber Cables

Materials & Dimensions

Fiber Type and Part Number Code	**SM** = Single-Mode 9um **MM** = Multi-Mode 62.5um OM1 **MM5** = Multi-Mode 50u OM2 **MM53** = Multi-Mode 50u OM3 **MM54** = Multi-Mode 50u OM4
Cladding	Glass, 125um diameter
Primary Coating	UV Cured Acrylate, 245um diameter
Secondary Buffer	Plenum PVC, 900um diameter
Overall Strength Member	Aramid Yarn
Overall Jacket	Plenum PVC (black, yellow or orange)



Performance Characteristics

Testing Standard	Fiber Proof Test Level	Operating Temperature	Ratings amd Approvals	Listing
GR 409	100 kpsi	-40˚C to 75˚C	Moisture, Fungus and UV Resistant GR-20-CORE, ICEA-S-104-696	(UL) OFNP (CSA) FT-6

Product Variations

Part Number	Number of Elements	Fiber Color Code	Overall Diameter	Weight	Bend Radius (min.)	Tensile Load (max.)
CWF-D002P**	2	blue, orange	.210"	19 lbs/Mft	3.2" - Installation 2.1" - Operating	300 lbs - Installation 90 lbs - Operating
CWF-D004P**	4	blue, orange, green, brown	.220"	21 lbs/Mft	3.3" - Installation 2.2" - Operating	300 lbs - Installation 90 lbs - Operating
CWF-D006P**	6	blue, orange, green, brown, grey, white	.250"	26 lbs/Mft	3.8" - Installation 2.5" - Operating	300 lbs - Installation 90 lbs - Operating
CWF-D012P**	12	blue, orange, green, brown, grey, white, red, black, yellow, purple, rose, aqua	.280"	31 lbs/Mft	4.1" - Installation 2.8" - Operating	300 lbs - Installation 90 lbs - Operating

BR Series

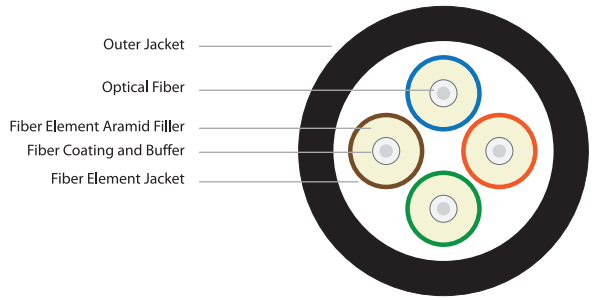
Riser Rated Breakout Indoor/Outdoor Optical Fiber Cables

- Indoor or Outdoor Use
- Permanent Installation
- Single-Mode or Multi-Mode
- Individual Fiber Filler and Jackets
- 2 - 24 Fiber Elements
- OFNR Riser Rated

Part Number: **CWF-Bxxx**R** (see below for variations)
Description: Indoor/Outdoor Riser Rated Single-Mode Breakout Fiber

Materials & Dimensions

Fiber Type and Part Number Code	**SM** = Single-Mode 9um **MM** = Multi-Mode 62.5um OM1 **MM5** = Multi-Mode 50u OM2 **MM53** = Multi-Mode 50u OM3 **MM54** = Multi-Mode 50u OM4
Cladding	Glass, 125um diameter
Primary Coating	UV Cured Acrylate, 245um diameter
Secondary Buffer	PVC, 900um diameter
Element Strength Member	Aramid Yarn (per fiber element)
Element Jacket	Elastomeric, 2.5mm O.D. (per fiber element)
Overall Jacket	PVC (black or yellow)



Performance Characteristics

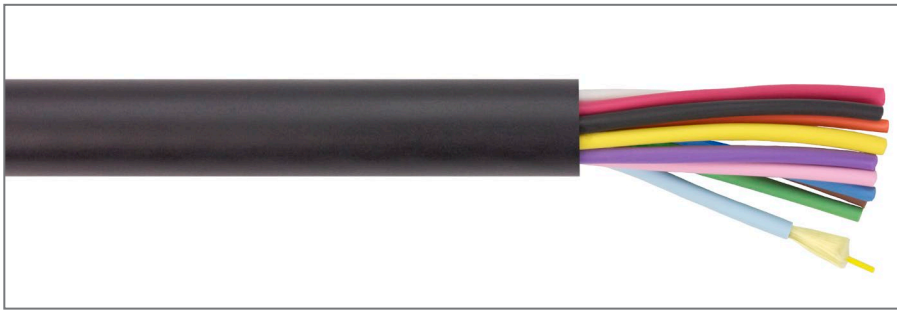
Impact Resistance	Crush Resistance	Fiber Proof Test Level	Operating Temperature	Listing
1500 impacts (EIA-455-25A)	2200 N/cm (EIA-455-41A)	100 kpsi	-40˚C to 85˚C	(UL) OFNR (CSA) FT-4

Product Variations

Part Number	Number of Elements	Fiber Color Code	Overall Diameter	Weight	Bend Radius (min.)	Tensile Load (max.)
CWF-B002R**	2	blue, orange	.280"	28 lbs/Mft	4.1" - Installation 2.8" - Operating	270 lbs - Installation 110 lbs - Operating
CWF-B004R**	4	blue, orange, green, brown	.320"	44 lbs/Mft	4.8" - Installation 3.2" - Operating	450 lbs - Installation 180 lbs - Operating
CWF-B006R**	6	blue, orange, green, brown, grey, white	.380"	56 lbs/Mft	5.7" - Installation 3.8" - Operating	670 lbs - Installation 270 lbs - Operating
CWF-B008R**	8	blue, orange, green, brown, grey, white, red, black	.460"	85 lbs/Mft	6.9" - Installation 4.6" - Operating	900 lbs - Installation 380 lbs - Operating
CWF-B012R**	12	blue, orange, green, brown, grey, white, red, black, yellow, purple, rose, aqua	.555"	95 lbs/Mft	7.7" - Installation 5.1" - Operating	1350 lbs - Installation 560 lbs - Operating
CWF-B018R**	18	same as 12 strand, #13 repeats at blue with continuous dashed markings	.600"	145 lbs/Mft	9.1" - Installation 6.0" - Operating	1800 lbs - Installation 790 lbs - Operating
CWF-B024R**	24	same as 12 strand, #13 repeats at blue with continuous dashed markings	.690"	188 lbs/Mft	10.4" - Installation 6.9" - Operating	2250 lbs - Installation 850 lbs - Operating

BP Series

Plenum Rated Indoor/Outdoor Breakout Optical Fiber Cables

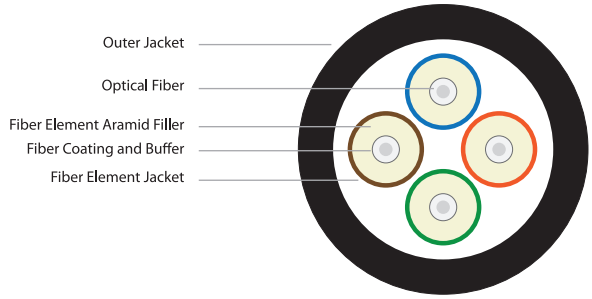


- Indoor or Outdoor Installation
- Single-Mode or Multi-Mode
- Individual Fiber Filler and Jackets
- 2 - 24 Fiber Elements
- Flouropolymer Outer Jacket
- OFNP Plenum Rated

Part Number: **CWF-Bxxx**P** (see below for variations)
Description: Plenum Rated Indoor/Outdoor Breakout Optical Fiber Cables

Materials & Dimensions

Fiber Type and Part Number Code	**SM** = Single-Mode 9um **MM** = Multi-Mode 62.5um OM1 **MM5** = Multi-Mode 50u OM2 **MM53** = Multi-Mode 50u OM3 **MM54** = Multi-Mode 50u OM4
Cladding	Glass, 125um diameter
Primary Coating	UV Cured Acrylate, 245um diameter
Secondary Buffer	900um diameter
Element Strength Member	Aramid Yarn (per fiber element)
Element Jacket	Plenum PVC, 2mm O.D. (per fiber element)
Overall Jacket	Flouropolymer



Performance Characteristics

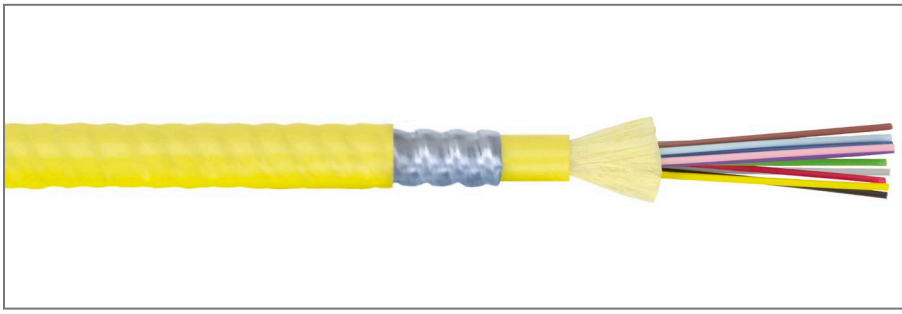
Impact Resistance	Crush Resistance	Fiber Proof Test Level	Operating Temperature	Listing
1000 impacts (EIA-455-25A)	2100 N/cm (EIA-455-41A)	100 kpsi	-40˚C to 85˚C	(UL) OFNP (CSA) FT-6

Product Variations

Part Number	Number of Elements	Fiber Color Code	Overall Diameter	Weight	Bend Radius (min.)	Tensile Load (max.)
CWF-B002P**	2	blue, orange	.260"	31 lbs/Mft	3.9" - Installation 3.9" - Operating	360 lbs - Installation 90 lbs - Operating
CWF-B004P**	4	blue, orange, green, brown	.260"	31 lbs/Mft	3.9" - Installation 3.9" - Operating	360 lbs - Installation 90 lbs - Operating
CWF-B006P**	6	blue, orange, green, brown, grey, white	.290"	41 lbs/Mft	4.4" - Installation 4.4" - Operating	540 lbs - Installation 130 lbs - Operating
CWF-B008P**	8	blue, orange, green, brown, grey, white, red, black	.340"	59 lbs/Mft	5.2" - Installation 5.2" - Operating	720 lbs - Installation 180 lbs - Operating
CWF-B012P**	12	blue, orange, green, brown, grey, white, red, black, yellow, purple, rose, aqua	.360"	63 lbs/Mft	5.5" - Installation 5.5" - Operating	1080 lbs - Installation 270 lbs - Operating
CWF-B018P**	18	same as 12 strand, then repeats at #13 with continuous dashed markings	.480"	109 lbs/Mft	7.2" - Installation 7.2" - Operating	1350 lbs - Installation 340 lbs - Operating
CWF-B024P**	24	same as 12 strand, then repeats at #13 with continuous dashed markings	.560"	148 lbs/Mft	8.4" - Installation 8.4" - Operating	1620 lbs - Installation 400 lbs - Operating

DRIA Series

Riser Rated Distribution Interlocked Armored Optical Fiber

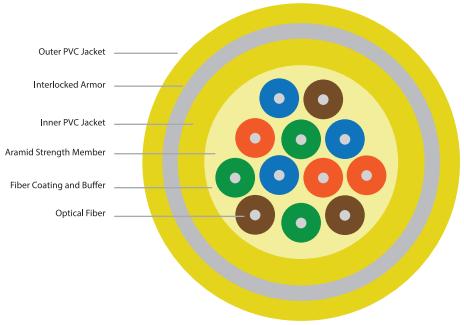


- Indoor Use
- Interlocking Armor & Outer Jacket
- Single-Mode or Multi-Mode
- Overall Aramid Strength Member
- 2 - 24 Fiber Elements
- OFCR Riser Rated

Part Number: **CWF-Dxxx**RIA** (see below for variations)
Description: Riser Rated Interlocked Armored Distribution Fiber Cables

Materials & Dimensions

Fiber Type and Part Number Code	**SM** = Single-Mode 9um **MM** = Multi-Mode 62.5um OM1 **MM5** = Multi-Mode 50u OM2 **MM53** = Multi-Mode 50u OM3 **MM54** = Multi-Mode 50u OM4
Cladding	Glass, 125um diameter
Primary Coating	UV Cured Acrylate, 245um diameter
Secondary Buffer	PVC, 900um diameter
Overall Strength Member	Aramid Yarn
Inner Jacket	PVC (SM Yellow, OM1 & OM2 Orange, OM3 & OM4 Aqua)
Armor	Aluminum Interlocking Armor
Outer Jacket	PVC (SM Yellow, OM1 & OM2 Orange, OM3 & OM4 Aqua)



Performance Characteristics

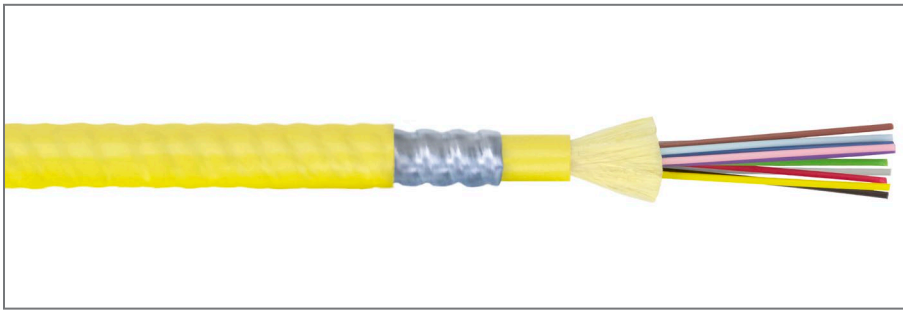
Operating Temperatures	Listing
-10˚C to 75˚C	(ETL) OFCR (UL1666)

Product Variations

Part Number	Number of Elements	Fiber Color Code	Overall Diameter	Weight	Bend Radius (min.)	Tensile Load (max.)
CWF-D006RIA**	6	blue, orange, green, brown, grey, white	.460"	74 lbs/Mft	7.0" - Installation 4.8" - Operating	150 lbs - Installation 45 lbs - Operating
CWF-D012RIA**	12	blue, orange, green, brown, grey, white, red, black, yellow, purple, rose, aqua	.460"	79 lbs/Mft	7.0" - Installation 5.0" - Operating	150 lbs - Installation 45 lbs - Operating
CWF-D024RIA**	24	same as 12 strand, #13 repeats at blue with continuous dashed markings	.620"	129 lbs/Mft	9.3" - Installation 5.3" - Operating	300 lbs - Installation 90 lbs - Operating

DPIA Series

Plenum Rated Distribution Interlocked Armored Optical Fiber

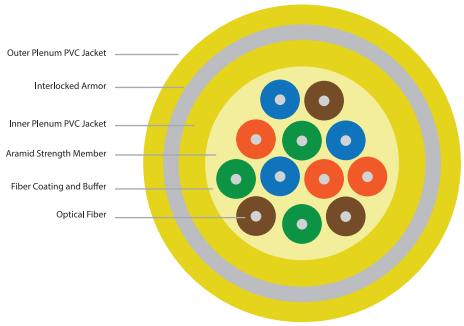


- Indoor Use
- Interlocking Armor & Outer Jacket
- Single-Mode or Multi-Mode
- Overall Aramid Strength Member
- 2 - 24 Fiber Elements
- OFCP Riser Rated

Part Number: **CWF-Dxxx**PIA** (see below for variations)
Description: Plenum Rated Interlocked Armored Distribution Fiber Cables

Materials & Dimensions

Fiber Type and Part Number Code	**SM** = Single-Mode 9um **MM** = Multi-Mode 62.5um OM1 **MM5** = Multi-Mode 50u OM2 **MM53** = Multi-Mode 50u OM3 **MM54** = Multi-Mode 50u OM4
Cladding	Glass, 125um diameter
Primary Coating	Clear, 242um diameter
Secondary Buffer	Plenum PVC, 900um diameter
Overall Strength Member	Aramid Yarn
Inner Jacket	Plenum PVC (SM Yellow, OM1 & OM2 Orange, OM3 & OM4 Aqua)
Armor	Aluminum Interlocking Armor
Outer Jacket	Plenum PVC (SM Yellow, OM1 & OM2 Orange, OM3 & OM4 Aqua)



Performance Characteristics

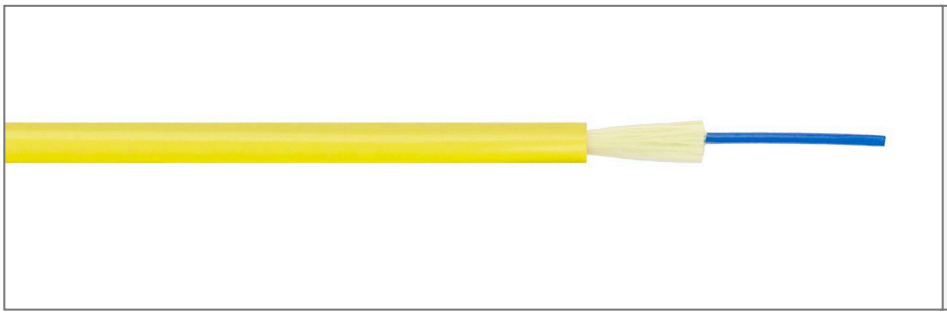
Operating Temperatures	Listing
-0˚C to 70˚C	(ETL) OFCP (NFPA 262/UL910) (CSA) FT6

Product Variations

Part Number	Number of Elements	Fiber Color Code	Overall Diameter	Weight	Bend Radius (min.)	Tensile Load (max.)
CWF-D006PIA**	6	blue, orange, green, brown, grey, white	.460"	82 lbs/Mft	7.0" - Installation 4.8" - Operating	100 lbs - Installation 30 lbs - Operating
CWF-D012PIA**	12	blue, orange, green, brown, grey, white, red, black, yellow, purple, rose, aqua	.460"	89 lbs/Mft	7.0" - Installation 5.0" - Operating	100 lbs - Installation 30 lbs - Operating
CWF-D024PIA**	24	same as 12 strand, #13 repeats at blue with continuous dashed markings	.620"	144 lbs/Mft	9.3" - Installation 5.3" - Operating	150 lbs - Installation 45 lbs - Operating

CWF-01xxR Series

Riser Rated Simplex Fiber Cables

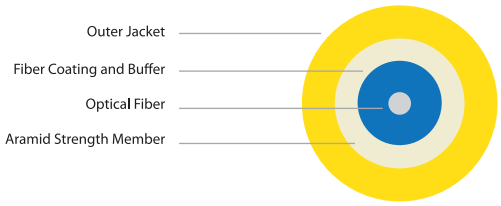


- Single Channel
- For Installation or Assemblies
- Single-Mode or Multi-Mode
- Aramid Strength Member
- PVC Jacket
- OFNR Riser Rated

Part Number: **CWF-01**R** (specify fiber type)
Description: Riser Rated Simplex Fiber

Materials & Dimensions

Fiber Type and Part Number Code	**SM** = Single-Mode 9um **MM** = Multi-Mode 62.5um OM1 **MM5** = Multi-Mode 50u OM2 **MM53** = Multi-Mode 50u OM3 **MM54** = Multi-Mode 50u OM4
Cladding	Glass, 125um diameter
Primary Coating	UV Cured Acrylate, 245um diameter
Secondary Buffer	Blue PVC, 900um diameter
Strength Member	Aramid Yarn
Jacket	PVC, 2.9mm O.D.
Color	SM Yellow, OM1 & OM2 Orange, OM3 & OM4 Aqua



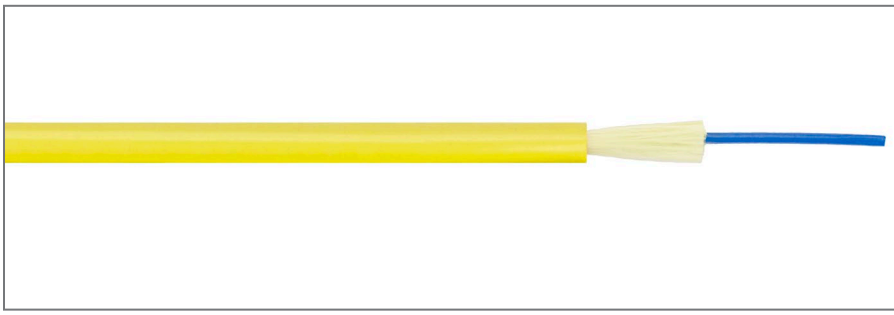
Performance Characteristics

Testing Standard	Fiber Proof Test Level	Operating Temperature	Bend Radius (min.)	Tensile Load (max.)	Listings	Weight
GR 409	100 kpsi	-20˚C to 70˚C	2.0" - Installation 1.2" - Operating	110 lbs - Installation 70 lbs - Operating	(UL) OFNR (CSA) FT-4	5 lbs/Mft

The CWF-01**R series are riser rated, simplex fiber cables for permanent installation, cable assemblies or patching applications. The 125um optical fiber element is coated with a 245um acrylate coating and 900um PVC tight-buffer for added strength. The outer jacket is extruded from a PVC compound that is both flexible and UL listed.

CWF-01xxP Series

Plenum Rated Simplex Fiber Cables

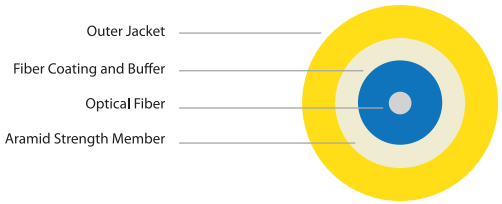


- Single Channel
- For Installation or Assemblies
- Single-Mode or Multi-Mode
- Aramid Strength Member
- PVC Jacket
- OFNP Plenum Rated

Part Number: **CWF-01**P** (specify fiber type)
Description: Plenum Rated Simplex Fiber

Materials & Dimensions

Fiber Type and Part Number Code	**SM** = Single-Mode 9um **MM** = Multi-Mode 62.5um OM1 **MM5** = Multi-Mode 50u OM2 **MM53** = Multi-Mode 50u OM3 **MM54** = Multi-Mode 50u OM4
Cladding	Glass, 125um diameter
Primary Coating	UV Cured Acrylate, 245um diameter
Secondary Buffer	Blue PVC, 900um diameter
Strength Member	Aramid Yarn
Jacket	Plenum PVC, 2.9mm O.D.
Color	SM Yellow, OM1 & OM2 Orange, OM3 & OM4 Aqua



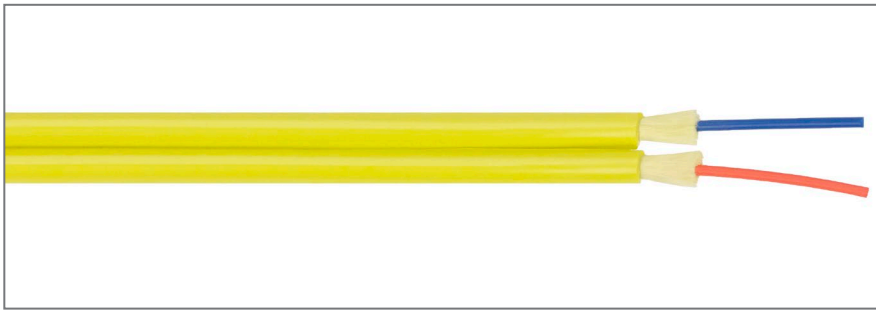
Performance Characteristics

Testing Standard	Fiber Proof Test Level	Operating Temperature	Bend Radius (min.)	Tensile Load (max.)	Listings	Weight
GR 409	100 kpsi	-20˚C to 85˚C	2.0" - Installation 1.2" - Operating	110 lbs - Installation 70 lbs - Operating	(UL) OFNP (CSA) FT-6	6 lbs/Mft

The CWF-01**P series are plenum rated, simplex fiber cables for permanent installation, cable assemblies or patching applications. The 125um optical fiber element is coated with a 245um acrylate coating and 900um PVC tight-buffer for added strength. The outer jacket is extruded from a PVC compound that is both flexible and UL listed.

CWF-02xxR Series

Riser Rated Duplex Fiber Cables

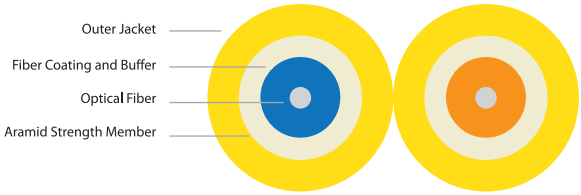


- Two Fiber Elements
- For Installation or Assemblies
- Single-Mode or Multi-Mode
- Aramid Strength Members
- PVC Jacket
- OFNR Riser Rated

Part Number: **CWF-02**R** (specify fiber type)
Description: Riser Rated Duplex Fiber

Materials & Dimensions

Fiber Type and Part Number Code	**SM** = Single-Mode 9um **MM** = Multi-Mode 62.5um OM1 **MM5** = Multi-Mode 50u OM2 **MM53** = Multi-Mode 50u OM3 **MM54** = Multi-Mode 50u OM4
Cladding	Glass, 125um diameter
Primary Coating	UV Cured Acrylate, 245um diameter
Secondary Buffer	PVC, 900um diameter (one blue, one orange)
Strength Member	Aramid Yarn
Jacket	PVC, 2.9mm x 6.0mm O.D.
Color	SM: Yellow, MM & MM5: Orange, MM53 & MM4: Aqua



Performance Characteristics

Testing Standard	Fiber Proof Test Level	Operating Temperature	Bend Radius (min.)	Tensile Load (max.)	Listings	Weight
GR 409	100 kpsi	-20˚C to 70˚C	2.0" - Installation 1.2" - Operating	22 lbs - Installation 7 lbs - Operating	(UL) OFNR (CSA) FT-4	10 lbs/Mft

The CWF-02**R series are riser rated, duplex fiber cables for permanent installation, cable assemblies or patching applications. The 125um optical fiber elements are coated with a 245um acrylate coating and 900um PVC tight-buffer for added strength. The outer jacket is extruded from a PVC compound that is both flexible and UL listed.

CWF-02xxP Series

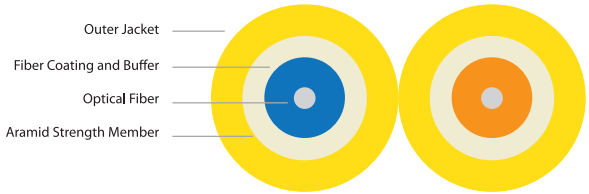
Plenum Rated Duplex Fiber Cables

- Two Fiber Elements
- For Installation or Assemblies
- Single-Mode or Multi-Mode
- Aramid Strength Members
- PVC Jacket
- OFNP Plenum Rated

Part Number: **CWF-02**P** (specify fiber type)
Description: Plenum Rated Duplex Fiber

Materials & Dimensions

Fiber Type and Part Number Code	**SM** = Single-Mode 9um **MM** = Multi-Mode 62.5um OM1 **MM5** = Multi-Mode 50u OM2 **MM53** = Multi-Mode 50u OM3 **MM54** = Multi-Mode 50u OM4
Cladding	Glass, 125um diameter
Primary Coating	UV Cured Acrylate, 245um diameter
Secondary Buffer	PVC, 900um diameter (one blue, one orange)
Strength Member	Aramid Yarn
Jacket	Plenum PVC, 2.9mm x 6.0mm O.D.
Color	SM: Yellow, MM & MM5: Orange, MM53 & MM4: Aqua



Performance Characteristics

Testing Standard	Fiber Proof Test Level	Operating Temperature	Bend Radius (min.)	Tensile Load (max.)	Listings	Weight
GR 409	100 kpsi	-0˚C to 70˚C	2.0" - Installation 1.2" - Operating	22 lbs - Installation 7 lbs - Operating	(UL) OFNP (CSA) FT-6	12 lbs/Mft

The CWF-02**P series are plenum rated, duplex fiber cables for permanent installation, cable assemblies or patching applications. The 125um optical fiber elements are coated with a 245um acrylate coating and 900um PVC tight-buffer for added strength. The outer jacket is extruded from a PVC compound that is both flexible and UL listed.

Optical Cable Appendix

Attenuation and Maximum Transmission Distances

SINGLE MODE 9um

Product Code: SM

Wavelength	Gigabit Ethernet (max. distance)	10-Gig Ethernet (max. distance)	Attenuation (max.)
1310 nm	---	----	0.5 dB/km
1550 nm	5,000 m	10,000 m	0.5 dB/km

MULTI-MODE 62.5um OM1

Product Code: MM

Wavelength	Overfill Launch Min. Bandwidth (minimum)	Gigabit Ethernet (max.distance)	10-Gig Ethernet (max. distance)	Attenuation (max.)
850 nm	200 MHz-km	300 m	32 m	3.5 dB/km
1300 nm	600 MHz-km	550 m	---	1.2 dB/km

MULTI MODE 50um OM2

Product Code: MM5

Wavelength	Overfill Launch Min. Bandwidth (minimum)	Gigabit Ethernet (max. distance)	10-Gig Ethernet (max. distance)	Attenuation (max.)
850 nm	500 MHz-km	600 m	82 m	3.5 dB/km
1300 nm	500 MHz-km	600 m	---	1.5 dB/km

MULTI MODE 50um OM3

Product Code: MM53

Wavelength	Overfill Launch Min. Bandwidth (minimum)	Gigabit Ethernet (max. distance)	10-Gig Ethernet (max. distance)	Attenuation (max.)
850 nm	2000 MHz-km	1000 m	300 m	3.0 dB/km
1300 nm	500 MHz-km	550 m	---	1.0 dB/km

MULTI MODE 50um OM4

Product Code: MM54

Wavelength	Overfill Launch Min. Bandwidth (minimum)	Gigabit Ethernet (max. distance)	10-Gig Ethernet (max. distance)	Attenuation (max.)
850 nm	4700 MHz-km	1040 m	550 m	3.0 dB/km
1300 nm	550 MHz-km	550 m	---	1.2 dB/km

Optical Cable Appendix

Fiber Element Color Code

Fiber Color Code

Element Number	Color	Element Number	Color
1	blue	13	blue w/ dash
2	orange	14	orange w/ dash
3	green	15	green w/ dash
4	brown	16	brown w/ dash
5	grey	17	grey w/ dash
6	white	18	white w/ dash
7	red	19	red w/ dash
8	black	20	black w/ dash
9	yellow	21	yellow w/ dash
10	purple	22	purple w/ dash
11	rose	23	rose w/ dash
12	aqua	24	aqua w/ dash

CLARK WIRE & CABLE

DATA CABLE

Networking and Custom Control

Clark data cables are built for high data-rate networking and next generation video over IP formats. Engineered and tested to meet TIA/EIA and ISO standards for Category 5E, Category 6, and 10Gb/s Category 6A cable types, Clark data cables deliver bandwidth and reliability for critical data infrastructures. In addition to the permanent installation versions, Clark category cables also include unique tactical versions made specifically for the harsh environments found in mobile production, industrial, and staging environments.

For lighting and control applications, Clark also manufactures a variety of custom engineered cables for industry specific formats such as DMX512 and lighting control keypads.

Also available as cable assemblies, Clark data cables can be ordered terminated with a variety of industry standard or custom connector options.

CLARK WIRE & CABLE

PRODUCT INDEX - DATA

See pages 140-144 for pre-terminated data cable assemblies.

CN424C5

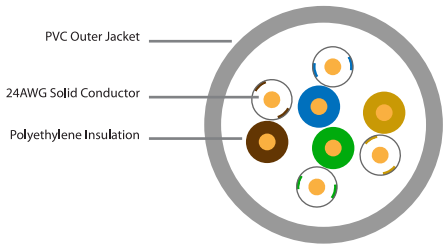
Riser Rated Cat5E 350MHz UTP Cable

- Enhanced 350 MHz Bandwidth
- ETL Verified to TIA-568-C.2
- ETL Verified to ISO/IEC 11801
- 1000 Mbps Gigabit Ethernet
- UL Rated Riser CMR

Part Number: **CN424C5**
Description: Riser Rated Category 5E 350MHz UTP Network Cable

Materials & Dimensions

Conductors	(8) 24AWG Solid BC (Configured as 4 Pairs)
Insulation	Polyethylene, .008" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Jacket	PVC
Overall Diameter	.200"



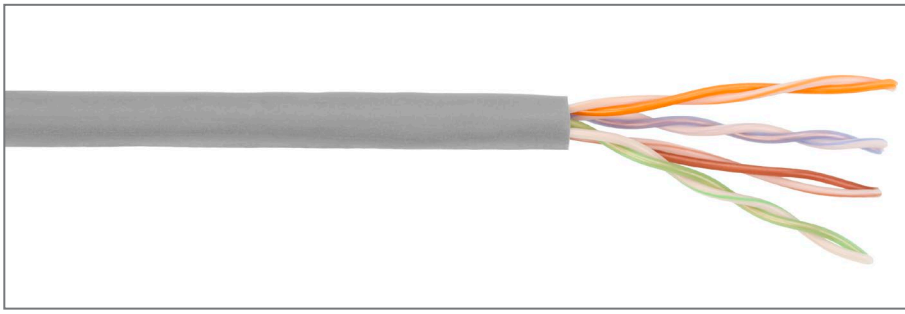
Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight	Agency Listing
9.38 Ω/100m	5%	100Ω (+/- 15)	40 ms/100m (max.)	5.6 nF/100m (mutual) 330 pF/100m (pair-to-pair ground unbalanced)	-20˚C to 75˚C	24 lbs/Mft	CMR C(ETL)US, FT-4 ETL Listed & Verified

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100	155	200	250	300	350
Insertion Loss	max. dB/100m	2.0	4.1	5.8	6.5	8.2	9.3	10.4	11.7	17.0	22.0	28.1	32.4	38.9	41.0	44.9
	nom. dB/100m	1.8	3.6	5.1	5.8	7.4	8.2	9.3	10.5	14.9	19.2	24.2	27.3	30.9	34.1	37.8
Return Loss	min. dB/100m	23.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.8	18.0	17.5	16.8	16.3
	nom. dB/100m	38.6	39.8	38.2	38.0	37.4	36.8	35.2	33.3	32.2	31.3	29.8	28.5	27.3	25.6	23.2
NEXT	min. dB/100m	70.3	61.2	56.8	55.3	52.3	50.8	49.3	47.9	43.4	40.3	37.4	35.7	34.8	33.1	32.1
	nom. dB/100m	79.4	69.9	61.9	62.4	57.8	56.4	56.3	53.8	49.8	47.5	45.1	43.3	41.4	40.2	39.0
PS-NEXT	min. dB/100m	68.3	59.3	54.8	53.5	50.3	48.8	47.3	45.9	41.4	38.3	35.4	33.7	32.5	31.1	30.1
	nom. dB/100m	76.9	67.4	59.4	59.9	55.2	53.8	53.6	51.1	47.4	45.0	42.6	40.2	39.0	37.7	36.5
ELFEXT	min. dB/100m	63.8	51.7	45.7	43.8	39.7	39.7	35.8	33.9	27.8	23.8	19.9	17.7	17.1	16.7	16.0
	nom. dB/100m	71.3	59.4	53.2	50.5	47.0	45.0	43.3	41.3	35.8	31.3	27.5	24.7	22.2	20.5	19.4
PS-ELFEXT	min. dB/100m	60.8	48.7	42.7	40.8	36.7	34.7	32.8	30.9	24.8	20.8	16.9	14.7	14.0	13.5	12.8
	nom. dB/100m	70.6	58.7	51.1	49.7	45.1	43.6	42.0	40.5	34.5	30.3	26.9	24.5	22.5	20.7	19.6
ACR	min. dB/100m	68.2	57.2	51.0	48.8	43.0	41.5	38.9	36.5	26.4	18.3	10.0	5.0	0.0	-	-
	nom. dB/100m	77.6	66.3	59.8	56.6	53.0	50.5	47.0	43.3	35.0	26.2	20.9	16.0	10.6	6.1	1.2
PS-ACR	min. dB/100m	66.3	55.2	49.0	47.0	42.1	39.5	36.9	34.2	24.4	16.3	7.3	2.0	-	-	-
	nom. dB/100m	75.0	63.5	56.9	53.7	47.4	45.0	43.7	40.0	31.2	24.2	15.9	10.0	4.0	-1.3	-6.4

CN424C5P

Plenum Rated Cat5E 350MHz UTP Cable

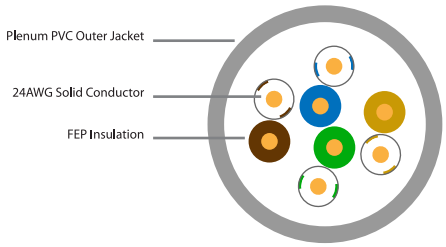


- Enhanced 350 MHz Bandwidth
- ETL Verified to TIA-568-C.2
- ETL Verified to ISO/IEC 11801
- 1000 Mbps Gigabit Ethernet
- UL Rated Plenum CMP

Part Number: **CN424C5P**
Description: Plenum Rated Category 5E 350MHz UTP Network Cable

Materials & Dimensions

Conductors	(8) 24AWG Solid BC (Configured as 4 Pairs)
Insulation	FEP, .008" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Jacket	Plenum PVC
Overall Diameter	.200"



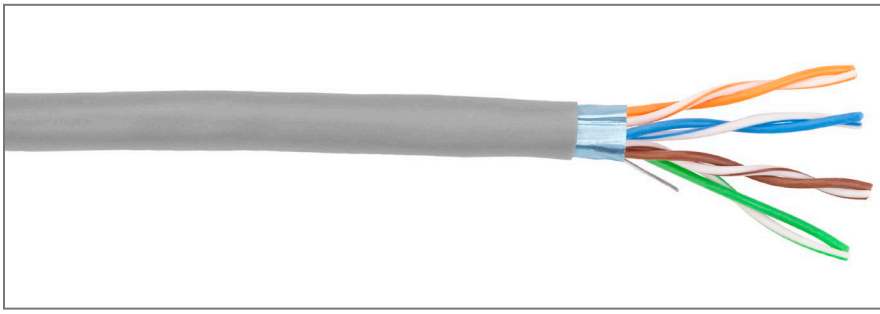
Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight	Agency Listing
9.38 Ω/100m	5%	100Ω (+/- 15)	40 ms/100m (max.)	5.6 nF/100m (mutual) 330 pF/100m (pair-to-pair ground unbalanced)	-20˚C to 75˚C	25 lbs/Mft	CMP C(ETL) FT-6 ETL Listed & Verified

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100	155	200	250	300	350
Insertion Loss	max. dB/100m	2.0	4.1	5.8	6.5	8.2	9.3	10.4	11.7	17.0	22.0	28.1	32.4	38.9	41.0	44.9
	nom. dB/100m	1.8	3.6	5.1	5.8	7.4	8.2	9.3	10.5	14.9	19.2	24.2	27.3	30.9	34.1	37.8
Return Loss	min. dB/100m	23.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.8	18.0	17.5	16.8	16.3
	nom. dB/100m	38.6	39.8	38.2	38.0	37.4	36.8	35.2	33.3	32.2	31.3	29.8	28.5	27.3	25.6	23.2
NEXT	min. dB/100m	70.3	61.2	56.8	55.3	52.3	50.8	49.3	47.9	43.4	40.3	37.4	35.7	34.8	33.1	32.1
	nom. dB/100m	79.4	69.9	61.9	62.4	57.8	56.4	56.3	53.8	49.8	47.5	45.1	43.3	41.4	40.2	39.0
PS-NEXT	min. dB/100m	68.3	59.3	54.8	53.5	50.3	48.8	47.3	45.9	41.4	38.3	35.4	33.7	32.5	31.1	30.1
	nom. dB/100m	76.9	67.4	59.4	59.9	55.2	53.8	53.6	51.1	47.4	45.0	42.6	40.2	39.0	37.7	36.5
ELFEXT	min. dB/100m	63.8	51.7	45.7	43.8	39.7	39.7	35.8	33.9	27.8	23.8	19.9	17.7	17.1	16.7	16.0
	nom. dB/100m	71.3	59.4	53.2	50.5	47.0	45.0	43.3	41.3	35.8	31.3	27.5	24.7	22.2	20.5	19.4
PS-ELFEXT	min. dB/100m	60.8	48.7	42.7	40.8	36.7	34.7	32.8	30.9	24.8	20.8	16.9	14.7	14.0	13.5	12.8
	nom. dB/100m	70.6	58.7	51.1	49.7	45.1	43.6	42.0	40.5	34.5	30.3	26.9	24.5	22.5	20.7	19.6
ACR	min. dB/100m	68.2	57.2	51.0	48.8	43.0	41.5	38.9	36.5	26.4	18.3	10.0	5.0	0.0	-	-
	nom. dB/100m	77.6	66.3	59.8	56.6	53.0	50.5	47.0	43.3	35.0	26.2	20.9	16.0	10.6	6.1	1.2
PS-ACR	min. dB/100m	66.3	55.2	49.0	47.0	42.1	39.5	36.9	34.2	24.4	16.3	7.3	2.0	-	-	-
	nom. dB/100m	75.0	63.5	56.9	53.7	47.4	45.0	43.7	40.0	31.2	24.2	15.9	10.0	4.0	-1.3	-6.4

CN424C5S

Riser Rated Cat5E 350MHz Shielded STP Cable

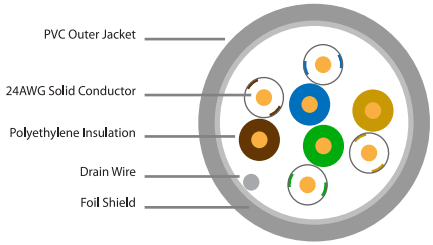


- Enhanced 350 MHz Bandwidth
- ETL Verified to TIA-568-C.2
- ETL Verified to ISO/IEC 11801
- 1000 Mbps Gigabit Ethernet
- UL Rated Riser CMR

Part Number: **CN424C5S**
Description: Riser Rated Category 5E 350MHz Shielded STP Cable

Materials & Dimensions

Conductors	(8) 24AWG Solid BC (Configured as 4 Pairs)
Insulation	Polyethylene, .009" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Shield	100% Foil w/ 26AWG Solid TC Drain Wire
Jacket	PVC
Overall Diameter	.242"



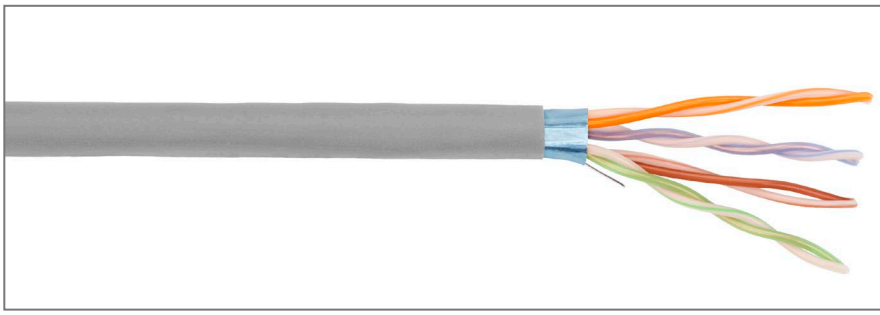
Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight	Agency Listing
9.38 Ω/100m	5%	100Ω (+/- 15)	40 ms/100m (max.)	5.6 nF/100m (mutual) 330 pF/100m (pair-to-pair ground unbalanced)	-20˚C to 75˚C	30 lbs/Mft	(ETL) CMR, C(ETL) FT-4 ETL Listed & Verified

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100	155	200	240	300	350
Insertion Loss	max. dB /100m	2.0	4.1	5.8	6.5	8.2	9.3	10.4	11.7	17.0	22.0	28.1	32.4	36.0	41.0	44.9
Return Loss	min. dB/100m	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.8	18.0	17.4	16.8	16.3
NEXT	min. dB/100m	70.3	61.2	56.8	55.3	52.3	50.8	49.3	47.9	43.4	40.3	37.4	35.7	34.8	33.1	32.1
PS-NEXT	min. dB/100m	66.3	57.3	52.8	51.5	48.3	46.8	45.3	43.6	39.4	36.3	33.5	31.8	30.6	29.2	28.1
ELFEXT	min. dB/100m	63.8	51.7	45.7	43.8	39.7	39.7	35.8	33.9	27.8	24.0	20.0	17.7	16.2	14.2	12.9
PS-ELFEXT	min. dB/100m	60.8	48.7	42.7	40.8	36.7	34.8	32.8	30.9	24.8	21.0	17.0	14.7	13.2	11.2	9.9
Delay	ns/100m	570.0	552.0	546.7	545.4	543.0	542.0	541.2	540.4	538.6	537.6	-	-	-	-	-

CN424C5SP

Plenum Rated Cat5E 350MHz Shielded STP Cable

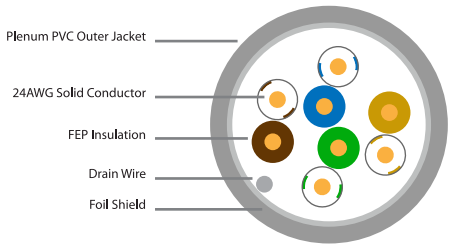


- Enhanced 350 MHz Bandwidth
- ETL Verified to TIA-568-C.2
- ETL Verified to ISO/IEC 11801
- 1000 Mbps Gigabit Ethernet
- UL Plenum Rated CMP

Part Number: **CN424C5SP**
Description: Plenum Rated Category 5E 350MHz Shielded STP Cable

Materials & Dimensions

Conductors	(8) 24AWG Solid BC (Configured as 4 Pairs)
Insulation	FEP, .009" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Shield	100% Foil w/ 26AWG Solid TC Drain Wire
Jacket	PVC
Overall Diameter	.233"



Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight	Agency Listing
9.38 Ω/100m	5%	100Ω (+/- 15)	40 ms/100m (max.)	5.6 nF/100m (mutual) 330 pF/100m (pair-to-pair ground unbalanced)	-20˚C to 75˚C	34 lbs/Mft	(ETL) CMP C(ETL) CMP FT-6 ETL Listed & Verified

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100	155	200	240	300	350
Insertion Loss	max. dB /100m	2.0	4.1	5.8	6.5	8.2	9.3	10.4	11.7	17.0	22.0	28.1	32.4	36.0	41.0	44.9
Return Loss	min. dB/100m	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.8	18.0	17.4	16.8	16.3
NEXT	min. dB/100m	68.3	59.3	54.8	53.3	50.3	48.8	47.3	45.9	41.4	38.3	35.5	33.8	32.6	31.2	30.1
PS-NEXT	min. dB/100m	66.3	57.3	52.8	51.3	48.3	46.8	45.3	43.6	39.4	36.3	33.5	31.8	30.6	29.2	28.1
ELFEXT	min. dB/100m	63.8	51.7	45.7	43.8	39.7	37.8	35.8	33.9	27.8	24.0	20.0	17.7	16.2	14.2	12.9
PS-ELFEXT	min. dB/100m	60.8	48.7	42.7	40.8	36.7	34.8	32.8	30.9	24.8	21.0	17.0	14.7	13.2	11.2	9.9
Delay	ns/100m	570.0	552.0	546.7	545.4	543.0	542.0	541.2	540.4	538.6	537.6	-	-	-	-	-

CN424C5DB

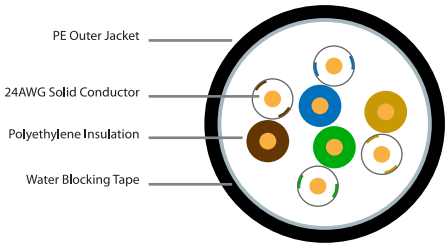
Direct Burial Category 5E 350 MHz UTP Cable

- Enhanced 350 MHz Bandwidth
- ETL Verified to TIA-568-C.2
- ETL Verified to ISO/IEC 11801
- 1000 Mbps Gigabit Ethernet
- ETL Listed Type CMX

Part Number: **CN424C5DB**
Description: Direct Burial Category 5E 350MHz UTP Cable

Materials & Dimensions

Conductors	(8) 24AWG Solid BC (Configured as 4 Pairs)
Insulation	Polyethylene, .008" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Barrier	Water-Blocking Tape
Jacket	Polyethylene
Overall Diameter	.205"



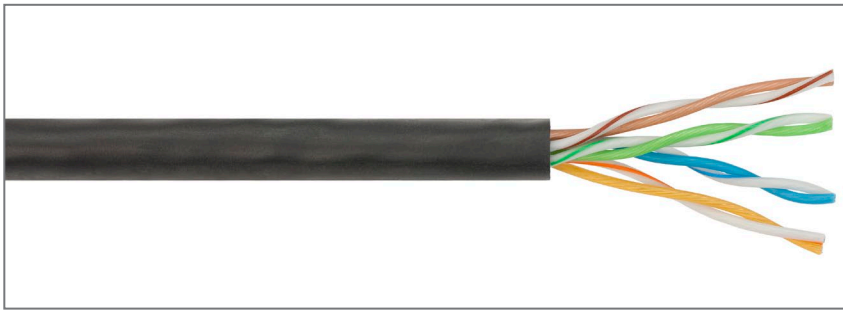
Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight	Agency Listing
9.38 Ω/100m	5%	100Ω (+/- 15)	45 ms/100m (max.)	5.6 nF/100m (mutual) 330 pF/100m (pair-to-pair ground unbalanced)	-40˚C to 75˚C	22 lbs/Mft	(ETL) CMX C(ETL) CMX ETL Listed & Verified

Frequency (MHz)		1	4	10	16	20	25	31.25	62.5	100	350
Insertion Loss	max. dB/100m	2.0	4.1	6.5	8.2	9.3	10.4	11.7	17.0	22.0	44.9
Return Loss	min. dB/100m	20.0	23.0	25.0	25.0	25.0	24.3	23.6	21.5	20.1	16.3
NEXT	min. dB/100m	65.3	56.3	50.3	47.3	45.8	44.3	42.9	38.4	35.3	27.2
PS-NEXT	min. dB/100m	61.0	49.0	41.0	36.9	35.0	33.0	31.1	25.1	21.0	10.1
ELFEXT	min. dB/100m	64.0	52.0	44.0	39.9	38.0	36.0	34.1	28.1	24.0	13.1
PS-ELFEXT	min. dB/100m	61.0	49.0	41.0	36.9	35.0	33.0	31.1	25.1	21.0	10.1
ACR	min. dB/100m	63.3	52.2	43.8	39.0	36.5	33.9	31.2	21.4	13.3	-
Delay	max. ns/100m	570.0	552.0	545.4	543.0	542.0	541.2	540.5	538.6	537.6	535.9

CN424C5TF

Ultra-Flexible Tactical Category 5e UTP Cable

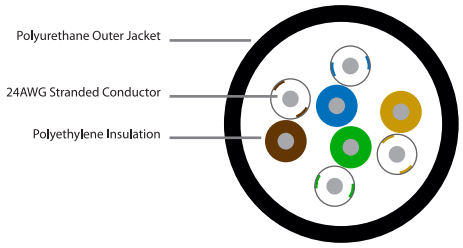


- Flexible and Rugged
- Polyurethane Outer Jacket
- Stranded 24AWG Conductors
- Unshielded Pairs
- TIA-568-C.2 Cat5e Patch Cable

Part Number: **CN424C5TF**
Description: Ultra-Flexible Tactical Category 5E UTP Cable

Materials & Dimensions

Conductors	(8) 24AWG (7x32) Stranded TC (Configured as 4 Pairs)
Insulation	Polyethylene, .007" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Jacket	Polyurethane
Overall Diamter	.228"
Color	Black



Performance Characteristics

DCR	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight
26.0 Ω/100m	100Ω (+/- 15)	25 ms/100m (max.)	13.5 pF/ft (mutual)	-40˚C to 75˚C	21 lbs/Mft

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100
Insertion Loss	max. dB /100m	3.6	6.4	9.0	10.0	13.2	14.7	16.3	18.3	26.4	34.3
Return Loss	min. dB/100m	20.0	23.0	24.5	25.0	25.0	25.0	24.2	23.3	20.7	19.0
NEXT	min. dB/100m	65.3	56.3	51.8	50.3	47.3	45.8	44.3	42.9	38.4	35.3
PS-NEXT	min. dB/100m	62.3	53.3	48.8	47.3	44.3	42.8	41.3	39.9	35.4	32.3
ELFEXT	min. dB/100m	63.8	51.7	45.7	43.8	39.7	37.7	35.8	33.9	27.8	23.8
PS-ELFEXT	min. dB/100m	60.8	48.7	42.7	40.8	36.7	34.7	32.8	30.9	24.8	20.8

CN426C5TFS

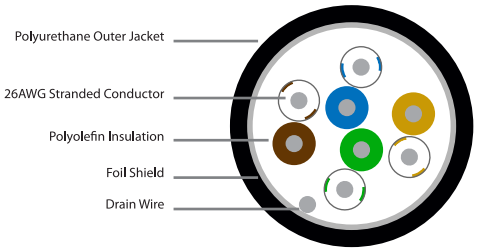
Ultra-Flexible Tactical Category 5E Shielded STP Cable

- Flexible and Rugged
- Polyurethane Outer Jacket
- Stranded and Shielded
- ISO 11801 Class D Patch Cable
- TIA-568-C.2 Cat5e Screened Patch Cable

Part Number: **CN426C5TFS**
Description: Tactical Category 5 Shielded STP Cable

Materials & Dimensions

Conductors	(8) 26AWG (7x34) Stranded TC (Configured as 4 Pairs)
Insulation	Polyolefin, .010" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Shield	100% Foil w/ 26AWG (7x34) Stranded TC Drain Wire
Jacket	Polyurethane
Overall Diameter	.217"
Available Colors	Black



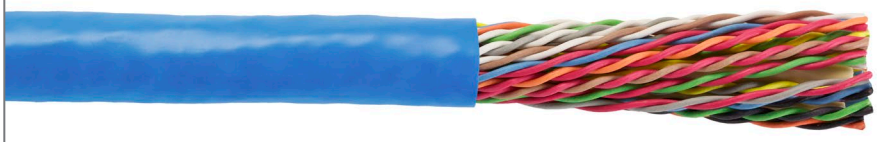
Performance Characteristics

DCR	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight
42.6 Ω/100m	100Ω (+/- 15)	25 ms/100m (max.)	13.5 pF/ft (mutual)	-40˚C to 75˚C	25 lbs/Mft

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100
Insertion Loss	max. dB /100m	3.1	6.1	8.6	9.7	12.4	13.9	15.6	17.6	25.5	33.0
Return Loss	min. dB/100m	20.0	23.0	24.5	25.0	25.0	25.0	24.2	23.3	20.7	19.0
NEXT	min. dB/100m	65.3	56.3	51.8	50.3	47.3	45.8	44.3	42.9	38.4	35.3
PS-NEXT	min. dB/100m	62.3	53.3	48.8	47.3	44.3	42.8	41.3	39.9	35.4	32.3
ELFEXT	min. dB/100m	63.8	51.7	45.7	43.8	39.7	37.7	35.8	33.9	27.8	23.8
PS-ELFEXT	min. dB/100m	60.8	48.7	42.7	40.8	36.7	34.7	32.8	30.9	24.8	20.8

CN2524C5

Riser Rated Cat5E 350MHz 25-Pair UTP Cable

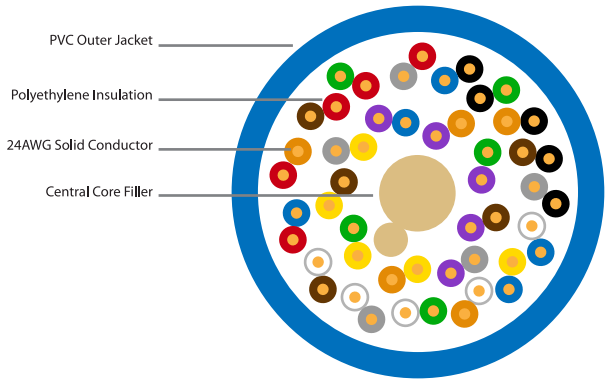


- Cat5E Gigabit Ethernet Networking
- 25 Twisted Pairs
- 350 MHz Bandwidth
- ETL Verified to TIA-568-C.2
- ETL Verified to ISO/IEC 11801
- UL Riser Rated CMR

Part Number: **CN2524C5**
Description: Riser Rated Cat5E 350MHz 25-Pair UTP Cable

Materials & Dimensions

Conductors	(50) 24AWG Solid BC (Configured as 25 Pairs)
Insulation	PE, .008" wall
Insulation Color Code	(1) blue-white, (2) orange-white, (3) green-white, (4)brown-white, (5) gray-white, (6) blue-red, (7) orange-red, (8) green-red, (9) brown-red, (10) gray-red, (11) blue-black, (12) orange-black, (13) green-black, (14) brown-black, (15) gray-black, (16) blue-yellow, (17) orange-yellow, (18) green-yellow, (19) brown-yellow, (20) gray-yellow, (21) blue-violet, (22) orange-violet, (23) green-violet, (24) brown-violet, (25) gray-violet
Central Core Filler	PVC
Jacket	PVC
Overall Diameter	.413"



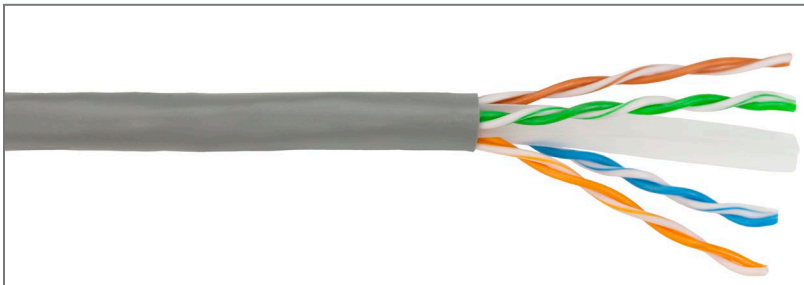
Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight	Agency Listing
9.38 Ω/100m	5%	100Ω (+/- 15)	40 ms/100m (max.)	330 pF/100m (pair-to-pair ground unbalanced)	-20˚C to 75˚C	132 lbs/Mft	CMR C(ETL)US, FT-4 ETL Listed & Verified

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100	155	200	250	300	350
Insertion Loss	max. dB/100m	2.0	4.1	5.8	6.5	8.2	9.3	10.4	11.7	17.0	22.0	28.1	32.4	38.9	41.0	44.9
Return Loss	min. dB/100m	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.8	18.0	17.5	16.8	16.3
NEXT	min. dB/100m	65.3	56.3	51.8	50.3	47.3	45.8	44.3	42.9	38.4	35.3	37.4	35.7	34.8	33.1	32.1
PS-NEXT	min. dB/100m	62.3	53.3	48.8	47.3	44.3	42.8	41.3	39.9	35.4	32.3	35.4	33.7	32.5	31.1	30.1
ELFEXT	min. dB/100m	63.8	51.7	45.7	43.8	39.7	37.7	35.8	33.9	27.8	23.8	19.9	17.7	17.1	16.7	16.0
PS-ELFEXT	min. dB/100m	60.8	48.7	42.7	40.8	36.7	34.7	32.8	30.9	24.8	20.8	16.9	14.7	14.0	13.5	12.8
ACR	typ. dB/100m	67.3	56.2	50.0	47.8	44.0	41.5	38.9	36.2	27.4	19.3	10.0	5.0	0.0	-	-
Delay	ns/100m	570.0	552.0	546.7	545.4	543.0	542.0	541.2	540.4	538.6	537.6	-	-	-	-	-

CN423C6

Riser Rated Category 6 550MHz Enhanced UTP Cable

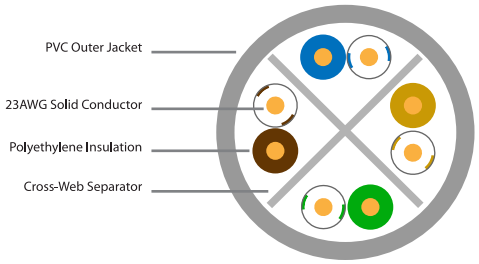


- Enhanced 550 MHz Bandwidth
- ETL Verified to TIA-568-C.2
- ETL Verified to ISO/IEC 11801
- 1000 Mbps Gigabit Ethernet
- UL Rated Riser CMR

Part Number: **CN423C6**
Description: Riser Rated Category 6 550MHz Enhanced UTP Cable

Materials & Dimensions

Conductors	(8) 23AWG Solid BC (Configured as 4 Pairs)
Insulation	Polyethylene, .009" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Separator	Cross-Web PVC
Jacket	PVC
Overall Diameter	.244"



Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight	Agency Listing
9.38 Ω/100m	5%	100Ω (+/- 15)	40 ms/100m (max.)	5.6 nF/100m (mutual) 330 pF/100m (pair-to-pair ground unbalanced)	-20˚C to 75˚C	30 lbs/Mft	CMR C(ETL) CMG, FT-4 ETL Listed & Verified

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100	155	200	250	300	350	400	450	500	550
Insertion Loss	max. dB/100m	2.0	3.8	5.3	5.9	7.4	8.3	9.3	10.4	14.9	19.0	23.9	27.4	30.8	34.0	37.0	39.7	42.1	44.9	47.3
Return Loss	min. dB/100m	20.0	23.6	25.4	26.0	26.0	26.0	25.5	25.0	23.5	22.5	21.6	21.0	20.5	20.1	19.8	19.5	19.2	19.0	18.8
NEXT	min. dB/100m	77.3	68.3	63.8	62.3	59.3	57.8	56.3	54.9	50.4	47.3	45.8	42.8	41.3	40.2	39.2	38.3	37.5	36.8	36.2
PS-NEXT	min. dB/100m	75.3	66.3	61.8	30.3	57.3	55.8	54.3	52.9	48.4	45.3	43.5	40.8	39.3	38.2	37.2	36.3	35.5	34.8	34.2
ELFEXT	min. dB/100m	70.8	58.7	52.7	50.8	46.7	44.7	42.8	40.9	34.8	30.8	27.0	24.7	22.8	21.2	19.9	18.7	17.7	16.8	15.9
PS-ELFEXT	min. dB/100m	67.8	55.7	49.7	47.8	43.7	41.7	39.8	37.9	31.8	27.8	23.6	21.7	19.8	18.2	16.9	15.7	14.7	13.8	12.9
ACR	min. dB/100m	75.0	64.0	57.7	55.6	50.7	48.2	45.6	42.8	32.9	24.9	21.0	18.4	13.5	9.6	5.2	1.5	-	-	-
PS-ACR	min. dB/100m	73.0	62.0	55.7	53.6	48.7	16.2	13.6	40.8	30.9	22.9	21.5	16.4	11.5	5.0	3.2	-	-	-	-

CN423C6P

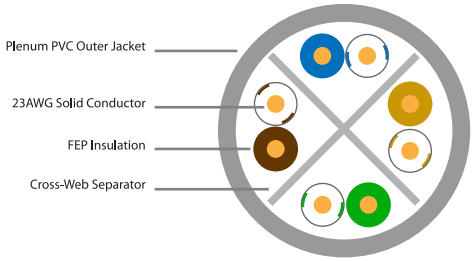
Plenum Rated Category 6 550MHz Enhanced UTP Cable

- Enhanced 550 MHz Bandwidth
- ETL Verified to TIA-568-C.2
- ETL Verified to ISO/IEC 11801
- 1000 Mbps Gigabit Ethernet
- UL Plenum Rated CMP

Part Number: **CN423C6P**
Description: Plenum Rated Category 6 550MHz Enhanced UTP Cable

Materials & Dimensions

Conductors	(8) 23AWG Solid BC (Configured as 4 Pairs)
Insulation	FEP, .008" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Separator	Cross-Web PVC
Jacket	Plenum PVC
Overall Diameter	.236"



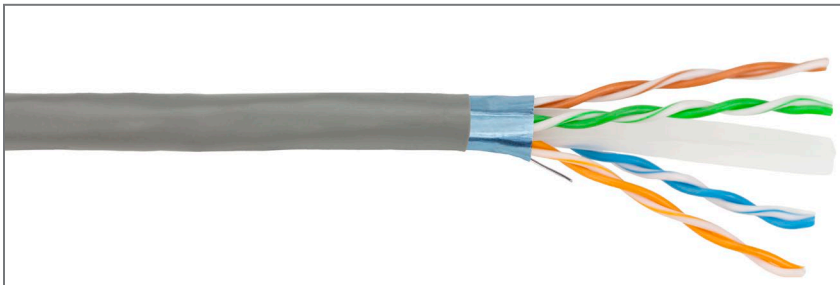
Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight	Agency Listing
9.38 Ω/100m	5%	100Ω (+/- 15)	40 ms/100m (max.)	5.6 nF/100m (mutual) 330 pF/100m (pair-to-pair ground unbalanced)	0˚C to 60˚C	33 lbs/Mft	CMP, C(ETL) FT-6 ETL Listed & Verified

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100	155	200	250	300	350	400	450	500	550
Insertion Loss	max. dB/100m	2.0	3.8	5.3	5.9	7.4	8.3	9.3	10.4	14.9	19.0	23.9	27.4	30.8	34.0	37.0	39.7	42.1	44.9	47.3
Return Loss	min. dB/100m	20.0	23.6	25.4	26.0	26.0	26.0	25.5	25.0	23.5	22.5	21.6	21.0	20.5	20.1	19.8	19.5	19.2	19.0	18.8
NEXT	min. dB/100m	77.3	68.3	63.8	62.3	59.3	57.8	56.3	54.9	50.4	47.3	45.8	42.8	41.3	40.2	39.2	38.3	37.5	36.8	36.2
PS-NEXT	min. dB/100m	75.3	66.3	61.8	30.3	57.3	55.8	54.3	52.9	48.4	45.3	43.5	40.8	39.3	38.2	37.2	36.3	35.5	34.8	34.2
ELFEXT	min. dB/100m	70.8	58.7	52.7	50.8	46.7	44.7	42.8	40.9	34.8	30.8	27.0	24.7	22.8	21.2	19.9	18.7	17.7	16.8	15.9
PS-ELFEXT	min. dB/100m	67.8	55.7	49.7	47.8	43.7	41.7	39.8	37.9	31.8	27.8	23.6	21.7	19.8	18.2	16.9	15.7	14.7	13.8	12.9
ACR	min. dB/100m	75.0	64.0	57.7	55.6	50.7	48.2	45.6	42.8	32.9	24.9	21.0	18.4	13.5	9.6	5.2	1.5	-	-	-
PS-ACR	min. dB/100m	73.0	62.0	55.7	53.6	48.7	16.2	13.6	40.8	30.9	22.9	21.5	16.4	11.5	5.0	3.2	-	-	-	-

CN423C6S

Riser Rated Category 6 550MHz Enhanced Shielded STP Cable

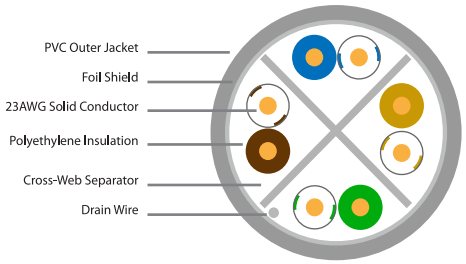


- Enhanced 550 MHz Bandwidth
- ETL Verified to TIA-568-C.2
- ETL Verified to ISO/IEC 11801
- 1000 Mbps Gigabit Ethernet
- ETL Rated Riser CMR

Part Number: **CN423C6S**
Description: Riser Rated Category 6 550MHz Shielded STP Cable

Materials & Dimensions

Conductors	(8) 23AWG Solid BC (Configured as 4 Pairs)
Insulation	Polyethylene, .009" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Separator	Cross-Web PVC
Shield	100% Foil w/ 26AWG Solid TC Drain Wire
Jacket	PVC
Overall Diameter	.244"



Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight	Agency Listing
9.38 Ω/100m	5%	100Ω (+/- 15)	45 ms/100m (max.)	5.6 nF/100m (mutual) 330 pF/100m (pair-to-pair ground unbalanced)	0°C to 60°C	42 lbs/Mft	CMR C(ETL) FT-4 ETL Listed & Verified

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100	155	200	250	300	350	400	450	500	550
Insertion Loss	max. dB/100m	2.0	3.8	5.3	5.9	7.4	8.3	9.3	10.4	14.9	19.0	23.9	27.4	30.8	34.0	37.0	39.7	42.1	44.9	47.3
Return Loss	min. dB/100m	20.0	23.6	25.4	26.0	26.0	26.0	25.5	25.0	23.5	22.5	21.6	21.0	20.5	20.1	19.8	19.5	19.2	19.0	18.8
NEXT	min. dB/100m	77.3	68.3	63.8	62.3	59.3	57.8	56.3	54.9	50.4	47.3	45.8	42.8	41.3	40.2	39.2	38.3	37.5	36.8	36.2
PS-NEXT	min. dB/100m	75.3	66.3	61.8	30.3	57.3	55.8	54.3	52.9	48.4	45.3	43.5	40.8	39.3	38.2	37.2	36.3	35.5	34.8	34.2
ELFEXT	min. dB/100m	70.8	58.7	52.7	50.8	46.7	44.7	42.8	40.9	34.8	30.8	27.0	24.7	22.8	21.2	19.9	18.7	17.7	16.8	15.9
PS-ELFEXT	min. dB/100m	67.8	55.7	49.7	47.8	43.7	41.7	39.8	37.9	31.8	27.8	23.6	21.7	19.8	18.2	16.9	15.7	14.7	13.8	12.9
ACR	min. dB/100m	75.0	64.0	57.7	55.6	50.7	48.2	45.6	42.8	32.9	24.9	21.0	18.4	13.5	9.6	5.2	1.5	-	-	-
PS-ACR	min. dB/100m	73.0	62.0	55.7	53.6	48.7	16.2	13.6	40.8	30.9	22.9	21.5	16.4	11.5	5.0	3.2	-	-	-	-

CN423C6DB

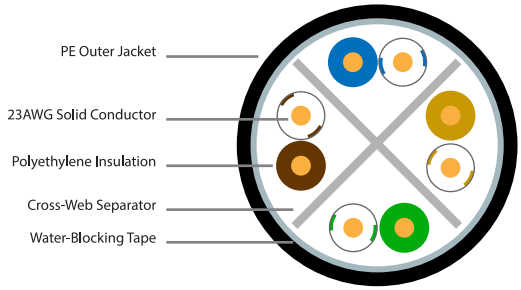
Direct Burial Category 6 550MHz Enhanced UTP Cable

- Enhanced 550 MHz Bandwidth
- ETL Verified to TIA-568-C.2
- ETL Verified to ISO/IEC 11801
- 1000 Mbps Gigabit Ethernet
- ETL Listed Type CMX

Part Number: **CN423C6DB**
Description: Direct Burial Category 6 550MHz Enhanced UTP Cable

Materials & Dimensions

Conductors	(8) 23AWG Solid BC (Configured as 4 Pairs)
Insulation	Polyethylene, .009" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Separator	Cross-Web PVC
Barrier	Water-Blocking Tape
Jacket	Polyethylene
Overall Diameter	.244"



Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight	Agency Listing
9.38 Ω/100m	5%	100Ω (+/- 15)	45 ms/100m (max.)	5.6 nF/100m (mutual) 330 pF/100m (pair-to-pair ground unbalanced)	-40˚C to 75˚C	30 lbs/Mft	(ETL) CMX C(ETL) CMX ETL Listed & Verified

Frequency (MHz)		1	4	10	16	20	25	31.25	62.5	100	200	250	350	550
Insertion Loss	max. dB/100m	2.0	3.8	5.9	7.5	8.5	9.5	10.7	15.4	19.8	29.0	32.9	39.8	51.8
Return Loss	min. dB/100m	20.0	23.0	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.0	17.3	16.3	14.9
NEXT	min. dB/100m	74.3	65.3	59.3	56.3	54.8	53.3	51.9	47.4	44.3	39.8	38.3	36.2	33.2
PS-NEXT	min. dB/100m	72.3	63.3	57.3	54.3	52.8	51.3	49.9	45.4	51.3	38.8	36.3	34.4	31.2
ELFEXT	min. dB/100m	67.8	55.8	47.8	43.7	41.8	39.8	37.9	31.9	27.8	21.8	19.8	16.9	13.0
PS-ELFEXT	min. dB/100m	64.8	52.8	44.8	40.7	38.8	36.8	34.9	28.9	24.8	18.8	16.8	13.9	10.0
ACR	min. dB/100m	72.7	61.4	53.4	48.7	46.3	43.8	41.2	32.0	24.5	10.8	5.5	-3.7	-18.6
Delay	max. ns/100m	570.0	552.0	545.4	543.0	542.0	541.2	540.5	538.6	537.6	536.6	536.3	535.9	535.5

CN423C6A

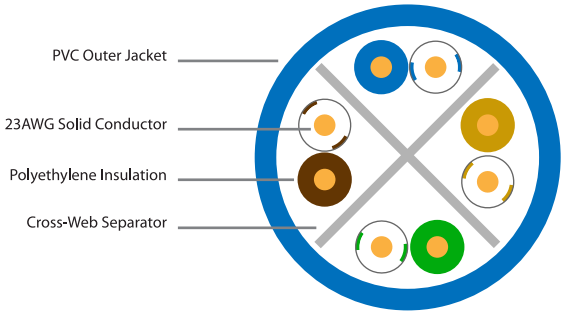
Riser Rated Category 6A 10Gb/s UTP Cable

- 10Gb/s Ethernet Networking
- 500 MHz Bandwidth
- ETL Verified to TIA-568-C.2
- ETL Verified to ISO/IEC 11801
- UL Rated Riser CMR

Part Number: **CN423C6A**
Description: Riser Rated Category 6A 10G UTP Cable

Materials & Dimensions

Conductors	(8) 23AWG Solid BC (Configured as 4 Pairs)
Insulation	Polyethylene, .009" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Separator	Cross-Web PVC
Jacket	PVC
Overall Diameter	.300"



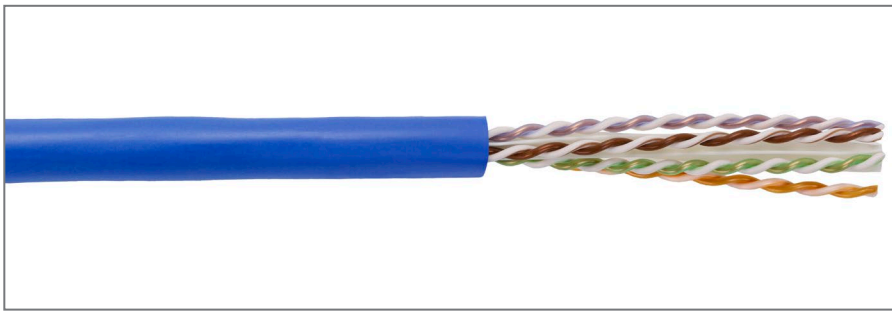
Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight	Agency Listing
6.85 Ω/100m	5%	100Ω (+/- 15)	40 ms/100m (max.)	330 pF/100m (pair-to-pair ground unbalanced)	-20˚C to 75˚C	55 lbs/Mft	CMR C(ETL) CMG, FT-4 ETL Listed & Verified

Frequency (MHz)		1	4	10	16	20	31.25	62.5	100	200	250	400	500
Insertion Loss	max. dB/100m	1.9	3.8	5.9	7.6	8.5	10.7	15.4	19.8	29.0	32.9	43.0	48.9
Return Loss	min. dB/100m	20.0	23.0	25.0	25.0	25.0	23.6	21.5	20.1	18.0	17.3	15.9	15.2
NEXT	min. dB/100m	74.3	65.2	59.3	56.2	54.8	51.9	47.4	44.3	39.8	38.3	35.2	33.8
PS-NEXT	min. dB/100m	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3	33.2	31.8
ELFEXT	min. dB/100m	67.8	55.8	47.8	43.7	41.8	37.9	31.9	27.8	21.8	19.8	15.9	14.0
PS-ELFEXT	min. dB/100m	64.8	52.8	44.8	40.7	38.8	34.9	28.8	24.8	18.8	16.8	12.9	11.0
Delay	min. dB/100m	570	552	545	543	542	540	538	537	536	536	535	535

CN423C6AP

Plenum Rated Category 6A 10Gb/s UTP Cable

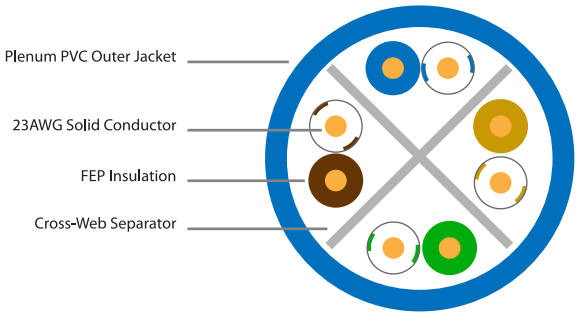


- 10Gb/s Ethernet Networking
- 500 MHz Bandwidth
- ETL Verified to TIA-568-B.2-10
- ETL Verified to ISO/IEC 11801
- UL Rated Plenum CMP

Part Number: **CN423C6AP**
Description: Plenum Rated Category 6A 10G UTP Cable

Materials & Dimensions

Conductors	(8) 23AWG Solid BC (Configured as 4 Pairs)
Insulation	FEP, .009" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Separator	Cross-Web
Jacket	Plenum PVC
Overall Diameter	.354"



Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Weight	Agency Listing
9.38 Ω/100m	5%	100Ω (+/- 15)	45 ms/100m (max.)	330 pF/100m (pair-to-pair ground unbalanced)	-20˚C to 80˚C	59 lbs/Mft	ETL listed Type CMP C(ETL) listed FT-6

Frequency (MHz)		1	4	10	16	20	31.25	62.5	100	200	250	400	500
Insertion Loss	max. dB/100m	2.1	3.8	5.9	7.5	8.4	10.5	15.0	19.1	27.6	31.1	40.1	45.3
Return Loss	min. dB/100m	20.0	23.0	25.0	25.0	25.0	23.6	21.5	20.1	18.0	17.3	15.9	15.2
NEXT	min. dB/100m	74.3	65.3	59.3	56.2	54.8	51.9	47.4	44.3	39.8	38.3	35.3	33.8
PS-NEXT	min. dB/100m	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3	33.2	31.8
ELFEXT	min. dB/100m	67.8	55.8	47.8	43.7	41.8	37.9	31.9	27.8	21.8	19.8	15.8	13.8
PS-ELFEXT	min. dB/100m	64.8	52.8	44.8	40.7	38.8	34.9	28.9	24.8	18.8	16.8	12.8	10.8
PS-ANEXT	min. dB/100m	67.0	67.0	67.0	67.0	67.0	67.0	65.6	62.5	58.0	56.5	53.5	52.0
PS-AELFEXT	min. dB/100m	67.0	66.2	56.2	54.1	52.2	48.3	42.3	38.2	32.2	30.2	26.2	24.2

CN423C6ATFS

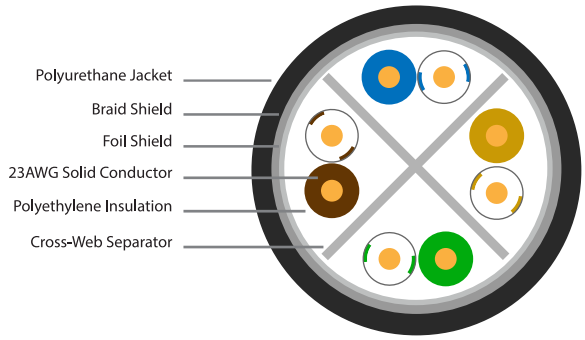
Category 6A 10Gb/s Tactical STP

- 10 Gb/s Ethernet Applications
- 500 MHz Bandwidth
- Extra-Flexible and Ruggedized
- Foil and Braid Shield
- Polyurethane Jacket

Part Number: **CN423C6ATFS**
Description: Category 6A 10-Gig Tactical STP Network Cable

Materials & Dimensions

Conductors	(8) 23AWG Solid BC (Configured as 4 Pairs)
Insulation	Polyethylene, .011" wall
Insulation Color Code	Pair 1: Blue & White w/ Blue Stripe Pair 2: Orange & White w/ Orange Stripe Pair 3: Green & White w/ Green Stripe Pair 4: Brown & White w/ Brown Stripe
Separator	Cross-Web PVC
Shield	100% Foil and 85% TC Braid
Jacket	Polyurethane
Overall Diameter	.320"



Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Capacitance	Operating Temperature	Weight	Agency Listing
9.38 Ω/100m	3%	100Ω (+/- 15) 1 - 100 MHz 100Ω (+/- 20) 101 - 250 MHz 100Ω (+/- 25) 251 - 500 MHz	5.6 nF/100m (mutual) 330 pF/100m (pair-to-pair ground unbalanced)	-20˚C to 75˚C	55 lbs/Mft	TIA/EIA 568.C.2 - CAT6A

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100	200	300	400	500
Insertion Loss	max. dB/100m	2.1	3.8	5.3	5.9	7.5	8.4	9.4	10.5	15.0	19.1	27.6	34.3	40.1	45.3
Return Loss	min. dB/100m	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.0	16.8	15.9	15.2
NEXT	min. dB/100m	74.3	65.3	60.8	59.3	56.2	54.8	53.3	51.9	47.4	44.3	39.8	37.1	35.3	33.8
PS-NEXT	min. dB/100m	72.3	63.3	58.8	57.3	54.2	52.8	51.3	49.9	45.4	42.3	37.8	35.1	33.1	31.8
ELFEXT	min. dB/100m	67.8	55.8	49.7	47.8	43.7	41.8	39.8	37.9	31.9	27.8	21.8	18.3	15.8	13.8
PS-ELFEXT	min. dB/100m	64.8	52.8	46.7	44.8	40.7	38.8	36.8	34.9	28.9	24.8	18.8	15.3	12.8	10.8
DELAY	ns/100m	570	552	547	545	543	542	541	540	539	538	537	536	536	536

SMC2210

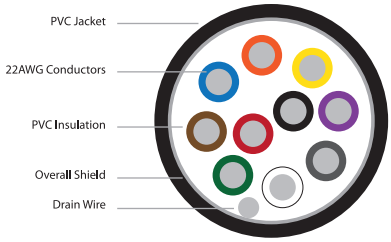
Ten Conductor 22AWG Multi-Conductor Cable

- Ten Conductors
- 22AWG Stranded Tinned Copper
- Overall Shield with Drain
- Flexible PVC Outer Jacket
- UL Rated

Part Number: **SMC2210**
Description: Ten Conductor 22AWG Shielded Control Cable

Materials & Dimensions

Conductors	(10) 22AWG (7x 30) Stranded TC
Insulation	PVC .007" wall
Insulation Color Code	Brown, Red, Orange, Yellow, Green. Blue, Violet, Grey, White, Black
Shield	100% Foil w/ 24AWG (7x32) Stranded TC Drain Wire
Jacket	PVC, .210" O.D.
Color	Black



Performance Characteristics

DC Resistance	Temperature Range	Bend Radius	Weight	UL Listing
Conductor: 14.4 Ω/Mft Shield w/ Drain: 20.0 Ω/Mft	-20˚C to 75˚C	2.1" min.	36 lbs/Mft	(UL) CL3R CMR/CMG C(UL)US

The SMC2210 is a shielded multi-conductor cable for general purpose control or data applications. The conductors are made from low-loss 22AWG stranded tinned copper to minimize DC resistance and improved solder adhesion. Each conductor is insulated with a color coded PVC. The ten conductor elements are shielded by an overall foil shield with drain wire and extruded under an overall PVC jacket. Ideal for cable assmeblies and permant installation, the SMC2210 is both flexible and UL rated.

ULK2218

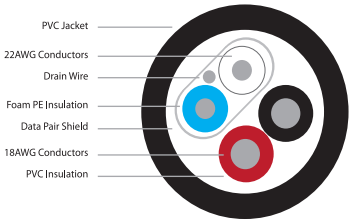
U-Link™ Universal Keypad Automation Control Cable

- 22AWG Signal Conductors
- 16AWG Auxiliary Conductors
- For Lutron, AMX, or Crestron Keypads
- Universal Cable Design
- UL Rated

Part Number: **ULK2218**
Description: U-Link™ Universal Keypad Automation Control Cable

Materials & Dimensions

Signal Elements	22AWG (7x30) BC Conductors Foam PE Insulation, .020" wall 100% Foil Shield w/ 24AWG (7x32) TC Drain Wire
Aux Elements	18AWG (7x26) BC Conductors PVC Insulation, .007" wall
Overall Jacket	PVC, Black



Signal Elements	Signal Color Code	Aux Elements	Aux Color Code	Overall Diameter	Weight	Bend Radius
2	White, Blue	2	Red, Black	.245"	38 lbs/Mft	2.5" min.

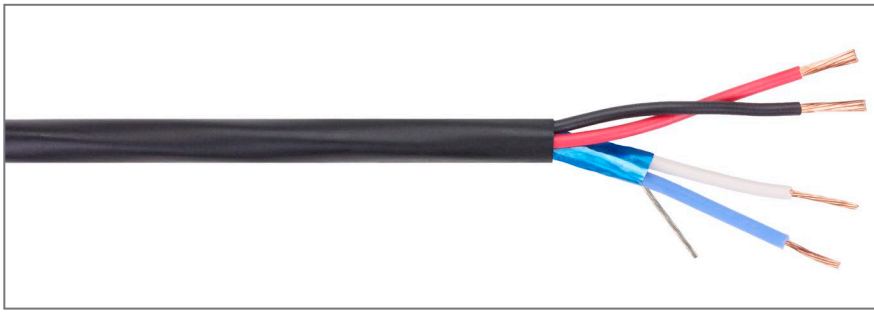
Performance Characteristics

DC Resistance	Impedance	Operating Temperature	UL Rating
Signal Conductor: 14.4 Ω/Mft *Aux Conductor:* 6.4 Ω/Mft *Shield + Drain:* 22.0 Ω/Mft	100Ω	-20˚C to 75˚C	CL3 or CM C(UL)US

Clark's U-Link™ ULK2218 is a universal control cable designed for use with Crestron, AMX and Lutron keypad to base station wiring in commercial and residential automation and conferencing systems. The U-Link ULK2218 has two twisted pair elements under a single-jacket to provide separate elements for the signal and power feeds to the keypad. To provide low attenuation, the data pair has a low-capacitance foam dielectric that reduces the high frequency signal attenuation within the pair. UL rated for permanent installation, the U-Link ULK2218 can be installed in most non-plenum permanent installation environments.

ULK2218P

Plenum U-Link™ Universal Automation Control Cable

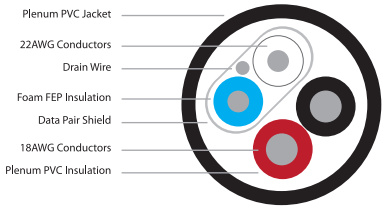


- 22AWG Signal Conductors
- 16AWG Auxiliary Conductors
- For Lutron, AMX, or Crestron Keypads
- Universal Cable Design
- UL Plenum Rated

Part Number: **ULK2218P**
Description: U-Link™ Plenum Universal Automation Control Cable

Materials & Dimensions

Signal Elements	22AWG (7x30) BC Conductors Foam FEP Insulation, .020" wall 100% Foil Shield w/ 24AWG (7x32) TC Drain Wire
Aux Elements	18AWG (7x26) BC Conductors Plenum PVC Insulation, .007" wall
Overall Jacket	Plenum PVC, Black



Signal Elements	Signal Color Code	Aux Elements	Aux Color Code	Overall Diameter	Weight	Bend Radius
2	White, Blue	2	Red, Black	.187"	29 lbs/Mft	1.9" min.

Performance Characteristics

DC Resistance	Impedance	Operating Temperature	UL Rating
Signal Conductor: 14.4 Ω/Mft *Aux Conductor:* 6.4 Ω/Mft *Shield + Drain:* 22.0 Ω/Mft	100Ω	-20˚C to 75˚C	CL3P or CMP C(UL)US

Clark's U-Link™ ULK2218P is a universal control cable designed for use with Crestron, AMX and Lutron keypad to base station wiring in commercial and residential automation and conferencing systems. The U-Link ULK2218P has two twisted pair elements under a single-jacket to provide separate elements for the signal and power feeds to the keypad. To provide low attenuation, the data pair has a low-capacitance foam dielectric that reduces the high frequency signal attenuation within the pair. UL plenum rated for permanent installation, the U-Link ULK2218P can be installed in most plenum permanent installation environments.

DMX-PRO

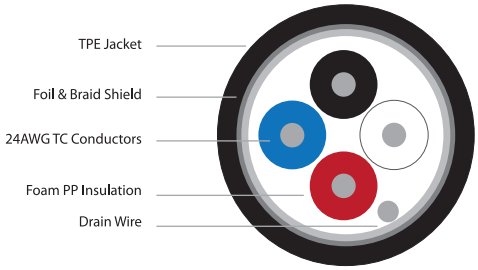
DMX512 Lighting Control Cable

- Flexible TPE Jacket
- Meets or Exceeds DMX512 Standards
- 120Ω Characteristic Impedance
- Dual Foil and Braid Shield
- Abrasion Resistant

Part Number: **DMX-PRO**
Description: 24AWG Four Conductor DMX512 Lighting Control Cable

Materials & Dimensions

Conductors	(4) 24AWG (7 x 32) Stranded TC
Insulation	Foam Polypropylene, .021" wall, (black & red, blue & white)
Shield	90% TC Braid & 100% Foil with 24AWG (7 x 32) Stranded TC Drain Wire
Jacket	Flexible TPE, .270" O.D.
Color	Black



Performance Characteristics

DC Resistance	Capacitance	Characteristic Impedance	Temperature Range	Weight
Conductor: 23.5Ω/Mft Shield w/ Drain: 3.4Ω/Mft	11.5 pF/ft between conductors	120Ω	-35˚C to 75˚C	45 lbs/Mft

Clark's DMX-PRO lighting control cable is designed specifically for the requirements of DMX512 control applications. The DMX-PRO has two low-capacitance balanced pairs for control and auxiliary signals. Specifically designed to meet the electrical performance specifications of DMX512, the DMX-PRO has a true 120Ω characteristic impedance and broadband foil and braid shield to ensure reliable data transmission. To withstand use in hostile and staging environments the DMX-PRO features a rugged and abrasion resistant TPE outer jacket.

Data Cable Appendix

Network Wiring Standards

TIA/EIA-568-A.1-2001 T568A Wiring Standard

RJ45 Pin Number	Cable Pair Number	Color
1	3	white w/ green stripe
2	3	green
3	2	white w/ orange stripe
4	1	blue
5	1	white w/ blue stripe
6	2	orange
7	4	white w/ brown stripe
8	4	brown

TIA/EIA-568-B.1-2001 T568B Wiring Standard

RJ45 Pin Number	Cable Pair Number	Color
1	2	white w/ orange stripe
2	2	orange
3	3	white w/ green stripe
4	1	blue
5	1	white w/ blue stripe
6	3	green
7	4	white w/ brown stripe
8	4	brown

CLARK WIRE & CABLE

ASSEMBLIES

Precision Built

Pre-terminated cables by Clark deliver almost any of Clark's broadcast and commercial AV cables in a ready-to-use cable assembly with connectors. Manufactured with precision copper and optical cable termination equipment, Clark can deliver assemblies made specifically to your length, labeling, pin-out and format requirements.

From precision automated stripped and crimped HD/SDI coaxial cables, to UPC grade machine-polished fiber contacts, Clark cable assemblies are made for consistent and long-term performance in critical broadcast, staging and commercial AV applications.

In addition to the most common assemblies listed in this section, highly customized cables, panels, and turn-key systems are also available. Please contact Clark for additional details on custom assembly capabilities.

CLARK WIRE & CABLE

PRODUCT INDEX - ASSEMBLIES

CCU-PRO26D Cable Assemblies

Multi-Core Cable Assembly for 26-Pin Digital Camera Systems

- For Digital 26-Pin Camera Systems
- Multiple Pinout Options
- 23AWG HD/SDI Coax
- 28AWG 75Ω and 50Ω Coaxes
- 16AWG, 26AWG, 28AWG Conductors
- Flexible and Rugged TPE Jacket
- Custom Ruggedized Back Shell
- 360° Compression Strain Relief

Part Number: **X-CCU26D-(length)-(pinout)**
Description: Digital 26-Pin Multi-Core Camera Cable Assembly

Options: Specify pinout type when ordering - JVC, Sony, Ikegami, Hitachi or Panasonic

Components

Cable Type	Clark CCU-PRO26D 1 - 23AWG 75Ω Coax 6 - 28AWG 75Ω Coaxes 1 - 28AWG 50Ω Coax 4 - 16AWG Conductors 9 - 26AWG Conductors 1 - 28AWG Shielded Twisted-Pair	Overall Jacket: Black TPE
Connector Type	Hirose type 26-Pin Connectors with Gold Plated Pins (One Male, One Female) Custom Heavy-Duty Aluminum Backshell 360° Compression Strain Relief	Connector Finish: Anodized Black & Nickel Plated

Performance Characteristics

Impedance	DC Resistance	Vel. of Prop.	Operating Temperature
Coax Elements: 75Ω - 23AWG 75Ω - 28AWG .100" O.D. 50Ω - 28AWG .070" O.D.	23AWG Solid BC Conductor: 20.0 Ω/Mft 26AWG (7x34) TC Conductor: 38.5 Ω/Mft 28AWG (7x36) TC Conductor: 61.0 Ω/Mft 16AWG (65x34) TC Conductor: 4.3 Ω/Mft	75Ω - 23AWG *Coax Element:* 77% 75Ω - 28AWG *Coax Element:* 77%	-30˚C to 75˚C

See CCU-PRO26D cable specifications for additional information and performance characteristics.

CCU-PRO26D + RG6 Cable Assemblies

Multi-Core 26-Pin Cable with RG6 Coax Assembly for Digital Camera Systems

- For Digital 26-Pin Camera Systems
- Universal Cable Compatibility
- Two Additional RG6 HD/SDI Coaxes
- Overall Expandable Sleeving
- SMPTE-424 BNC Coax Connectors
- Flexible and Rugged Jackets
- Custom Ruggedized Back Shell
- 360° Compression Strain Relief

Part Number: **X-CCU26DH-(length)-(pinout)**
Description: Digital 26-Pin Multi-Core + Two RG6 Coax Cable Assembly

Options: Specify pinout type when ordering - JVC, Sony, Ikegami, Hitachi or Panasonic

Components

Cable Type: 26-Pin	Clark CCU-PRO26D (1) 1 - 23AWG 75Ω Coax 6 - 28AWG 75Ω Coaxes 1 - 28AWG 50Ω Coax 4 - 16AWG Conductors 9 - 26AWG Conductors 1 - 28AWG Shielded Twisted-Pair	Overall Jacket: Black TPE
Cable Type: RG6	Clark CD7506 (2) 18AWG 75Ω 4.5GHz HD/SDI Coax	Jacket Color: One Red, One White
Connector Type	Hirose type 26-Pin Connectors with Gold Plated Pins (One Male, One Female) Custom Heavy-Duty Aluminum Backshell 360° Compression Strain Relief HD/SDI BNC termination on RG6 Coaxes (Three Straight, One Right Angel)	Connector Finish: Anodized Black & Nickel Plated Plated

Performance Characteristics

Impedance	DC Resistance	Vel. of Prop.	Operating Temperature
Coax Elements: 75Ω - RG6 18AWG 75Ω - 23AWG 75Ω - 28AWG .100" O.D. 50Ω - 28AWG .070" O.D.	23AWG Solid BC Conductor: 20.0 Ω/Mft 26AWG (7x34) TC Conductor: 38.5 Ω/Mft 28AWG (7x36) TC Conductor: 61.0 Ω/Mft 18AWG Solid BC Conductor: 6.4 Ω/Mft 16AWG (65x34) TC Conductor: 4.3 Ω/Mft	75Ω - 18AWG *Coax Element:* 83% 75Ω - 23AWG *Coax Element:* 77% 75Ω - 28AWG *Coax Element:* 77%	-30˚C to 75˚C

See CCU-PRO26D and CD7506 cable specifications for additional information and performance characteristics.

Triax Camera Cable Assemblies

Flexible Digital Triax for HD Copper Camera Interconnects

- RG11 and RG59 Sizes
- Gas Injected Dielectric
- Heat Resistant Belt
- Flexible and Rugged TPE Jacket
- Stranded or Solid Conductor
- Sweep Tested and Verified
- ADC or Kings Connectors

Part Number: **X-(cable type) - (length) - 0 - (connector brand)**
Description: Flexible Digitial Triax Camera Cable
Options:
Cable Type: TV7511D = RG11 Stranded, TV7559D = RG59 Stranded, TV7559DS = RG59 Solid
Length: Given in Feet
Connector Brand: (blank) = ADC ProAx
K = Kings TriLoc

Components

Cable Type	TV7511D (RG11 - 15AWG) or TV7559D (RG59 - 22AWG Stranded) or TV7559DS (RG59 - 20AWG Solid) Gas-Injected Dielectric 95% TC Inner Braid TPE Insulating Belt 95% TC Outer Braid TPE Outer Jacket	Overall Jacket: TPE
Connector Type	ADC ProAx or Kings Tri-Loc	Connector Finish: Plated Brass

Performance Characteristics

DC Resistance	Return Loss	Minimum Bend Radius	Operating Temperature
(RG11) 15 AWG Center Conductors: 2.9 Ω/Mft (RG59) 22AWG Stranded Center Conductor: 14.0 Ω/Mft (RG59) 20AWG Solid Center Conductor: 10.0 Ω/Mft Braid Shields: 1.4 Ω/Mft to 2.6 Ω/Mft	RG11: >20 dB (1MHz - 1GHz) RG59: >22 dB (1MHz - 1GHz) >15 dB (1GHz - 3GHz)	5.2" (RG11) 2.4" (RG59)	-30˚C to 75˚C (RG11) -35˚C to 75˚C (RG59)

See TV7511D or TV7559D cable specifications for additional information and performance characteristics.

Panasonic® Studio 300 Camera Assemblies

RG6 HD/SDI Coaxes with Power Multi-Core Cable Assembly

- Two RG6 HD/SDI Coaxes
- 12AWG Twisted-Pair for Power
- HD/SDI BNC Connectors
- 5-Pin Electrical Connectors
- Protective Fanout Overboot
- Flexible and Rugged TPE Jacket
- For Panasonic 300 Studio Systems

Part Number: **X - PANCAM300 - (length)**
Description: Two RG6 HD/SDI Coaxes plus 12AWG Pair Cable Assembly

Components

Cable Type	Clark CD7506DPWR 2 - 18 AWG RG6 HD/SDI 75Ω Coax (Red Jacket and White Jacket) 1 - 12AWG Stranded Pair (Yellow PVC Jacket) Overall Black TPE Jacket	Color: Black (overall jacket)
Connector Types	(4) HD/SDI BNC Connectors (2) 5-Pin Circular Electrical Connector Compatible/Mateable with Panasonic 300 Camera Systems	Connector Finish: Nickel Plated (BNCs) Anodized Black (5-Pin)

Performance Characteristics

Impedance	DC Resistance	Vel. of Prop.	Operating Temperature
Coax Elements: 75Ω - RG6 18AWG *12AWG Pair:* N/A	12AWG (19x25) BC Conductor: 1.8 Ω/Mft 18 AWG Solid BC Conductor: 6.4 Ω/Mft Coax Shield: 2.8 Ω/Mft	*Coax Elements:* 83%	-30˚C to 75˚C

See CD7506DPWR cable specifications for additional information and performance characteristics.

Panasonic® Studio 100 Camera Assemblies

Multi-Core Cable Assembly for Studio 100 Camera Systems

- Two Mini HD/SDI Coaxes
- One RG59 HD/SDI Coax
- 3-Pin XLR Element
- D-Sub 9-Pin Element
- 4-Pin XLR 12AWG Power Element
- Flexible and Rugged TPE Jacket
- For Panasonic 100 Studio Systems

Part Number: **X - PANCAM100 - (length)**
Description: Multi-Core Cable Assembly for Panasonic 100 Camera Systems

Components

Cable Elements	2 - 22AWG x 2 Shieded Twisted-Pairs (Clark SPA22GS) 2 - 23AWG 75Ω HD/SDI Coaxes (Clark CD7523) 1 - 20AWG 75Ω RG59 HD/SDI Coax (Clark CD7559) 1 - 12AWG x 2 Unshielded Twisted-Pair (Clark CW1202) 1 - 22WG x 10 Shielded Multi-Conductor Cable (Clark SMC2210)	Overall Jacket: Black TPE
Connector Types	1 - DB9 - male to female (terminated to SPA22GS) 3 - HD/SDI BNCs - male both ends (terminated to CD7523 and CD7559) 1 - 3-Pin XLR - male to female (terminated to SPA22GS) 1 - 4-Pin XLR - male to female (terminated to CW1202) 1 - 10-Pin Circular Connector - male to female (terminated to SMC2210)	Connector Finishes: Varies

Performance Characteristics

Impedance	DC Resistance	Vel. of Prop.	Operating Temperature
Coax Elements: 75Ω - RG59 20AWG 75Ω - Mini 23AWG	23AWG Solid BC Conductor: 20.0 Ω/Mft 22AWG (7x30) TC Conductor: 14.4 Ω/Mft 20AWG Solid BC Conductor: 10.0 Ω/Mft 12AWG (19x25) BC Conductor: 1.8 Ω/Mft	75Ω - 20AWG *Coax Element:* 83% 75Ω - 23AWG *Coax Element:* 83%	-30˚C to 75˚C

See SPA22GS, CD7523, CD7559, SMC2210, and CW1202 cable specifications for additional information and performance characteristics.

SMPTE 311M/304M Cable Assemblies

Hybrid Fiber Cable Assemblies for HD Camera to CCU Interconnects

- For SMPTE Based HD Cameras
- Clark HFCTP 311M Cable
- Lemo Brand 304M Connectors
- Rugged TPE Cable Jacket
- Stainless Steel Connector Shells
- Protective Overbody Boots
- Integrated Dust Caps
- Directional Arrow Printed on Cable

Part Number: **X-HFCTP-(length)-PS**
Description: SMPTE 311M/304M Hybrid Fiber Cable Assembly

Components

Cable Type	Clark HFCTP 2 - SM 900u Hytrel Tight Buffered Fibers 2 - 24AWG Signal Conductors 4 - 20AWG Aux Conductors 1 - 16AWG Galvanized Steel Strength Member 95% - Overall Braid Shield	Overall Jacket: Black TPE
Connector Type	Lemo SMPTE-304M Stainless Steel Connectors (One Male, One Female) Protective Overbody Rubber Boots Integrated Dust Caps with Lanyards	Connector Finish: Stainless Steel

Performance Characteristics

DC Resistance	Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
24AWG Signal Conductors: 23.5 Ω/Mft 20AWG Aux Conductor: 9.6 Ω/Mft Shield: 5.2 Ω/Mft	>0.4db + 0.70dB/km >-45dB SRL (-55dB Typical)	2.54"	-40˚C to 75˚C

See HFCTP cable specifications for additional information and performance characteristics.

SMPTE 311M/304M Bulkhead Cable Assemblies

Hybrid Fiber Bulkhead Assemblies for Panel Mount Applications

- For SMPTE Based HD Cameras
- Clark HFCTP 311M Cable
- Bulkhead Head Mount (one or both)
- Lemo Brand 304M Connectors
- Rugged TPE or Riser PVC Jacket
- Stainless Steel Connector Shells
- Integrated Dust Caps
- Directional Arrow Printed on Cable

Part Number: **X-HFC(cable type)-(length)-(bulkhead gender)**
Description: SMPTE 311M/304M Hybrid Fiber Bulkhead Assemblies

Options:
Cable Type: TP = Extra-Flexible TPE, PV = Flexible PVC & UL Riser Rated
Length: 10', 16', 25', 33', 50', 66', 82', 100', 164' or Custom
Bulkhead Gender: PSB = Inline Plug to Bulkhead Socket,
SPB = Inline Socket to Bulkhead Plug
PBSB = Bulkhead Socket to Bulkhead Plug

Components

Cable Type	Clark HFCTP (Flexible/Field) or HFCPV (UL Riser) 2 - SM 900u Hytrel Tight Buffered Fibers 2 - 24AWG Signal Conductors 4 - 20AWG Aux Conductors 1 - 16AWG Galvanized Steel Strength Member 95% - Overall Braid Shield	Overall Jacket: Black TPE or Black PVC
Connector Type	Lemo SMPTE-304M Stainless Steel Connectors (One Male, One Female) Integrated Dust Caps with Lanyards	Connector Finish: Stainless Steel

Performance Characteristics

DC Resistance	Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
24AWG Signal Conductors: 23.5 Ω/Mft 20AWG Aux Conductor: 9.6 Ω/Mft Shield: 5.2 Ω/Mft	>0.4db + 0.70dB/km >-45dB SRL (-55dB Typical)	2.54"	-40˚C to 75˚C (HFCTP) -20˚C to 75˚C (HFCPV)

See HFCTP or HFCPV cable specifications for additional information and performance characteristics.

SMPTE 311M/304M Breakout Cables

Breakout Cables for Extended Distance Applications

- For SMPTE Based HD Cameras
- HFCTP 311M Hybrid Cable
- Extended Runs from Panels or CCUs
- Bulkhead or Inline SMPTE Connector
- Stainless Lemo 304M Connector
- Premium ST/SC/LC/FC Connectors
- AMP Mate-N-Lok Electrical
- Includes Dust Caps with Lanyards

Part Number: **X-HFCTP-(length)-(SMPTE gender and type)-(fiber breakout connector)**
Description: SMPTE 304M Pigtail Breakout Cables

Options:
Length: 10', 16', 25', 33', 50', 66', 82', 100', 164' or Custom
SMPTE Gender and Type: P = Plug, PB = Plug Bulkhead, S = Socket, SB = Socket Bulkhead
Fiber Breakout Connector: ST, SC, LC, FC

Components

Cable Type	Clark HFCTP 2 - SM 900u Hytrel Tight Buffered Fibers 2 - 24AWG Signal Conductors 4 - 20AWG Aux Conductors 1 - 16AWG Galvanized Steel Strength Member 95% - Overall Braid Shield	Overall Jacket: Black TPE
Connector Type	Lemo SMPTE-304M Stainless Steel Inline or Bulkhead (Socket or Plug) with Dust Cap and Lanyard Premium ST/SC/LC/FC Connectors with Dust Caps and Lanyards AMP 6-Pos Mate-N-Lok Electrical Contact	Connector Finish: Stainless Steel (Lemo)

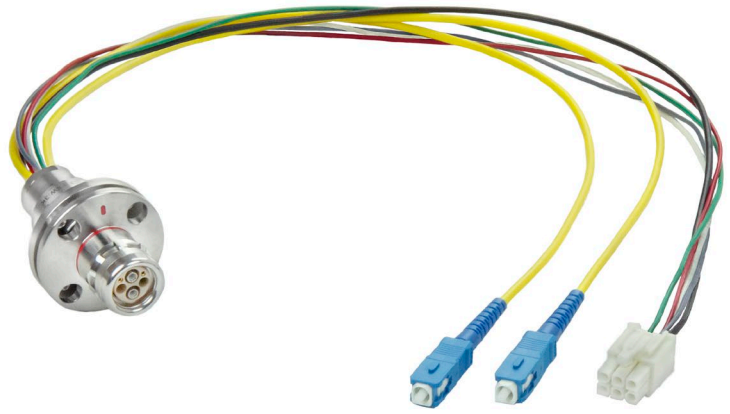
Performance Characteristics

DC Resistance	Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
24AWG Signal Conductors: 23.5 Ω/Mft 20AWG Aux Conductor: 9.6 Ω/Mft (2 per contact = 4.8 Ω/Mft) Shield: 5.2 Ω/Mft	>0.4db + 0.70dB/km >-45dB SRL (-55dB Typical)	2.54"	-40˚C to 75˚C

See HFCTP cable specifications for additional information and performance characteristics.

SMPTE 304M Pigtail Breakouts

Bulkhead Breakout Cables for Panel Mount Applications



- For SMPTE Based HD Cameras
- Breakout Pigtails for Panels
- Bulkhead Flange Mount
- Lemo SMPTE 304M Connectors
- Stainless Steel Lemo Body
- Premium ST/SC/LC/FC Connectors
- AMP Mate-N-Lok Electrical
- Includes Dust Caps with Lanyards

Part Number: **X-HFC-(SMPTE gender)-(fiber breakout connector)-(length)**
Description: SMPTE 304M Pigtail Breakout Cables

Options:
SMPTE Gender: EDW = Lemo Socket, FXW = Lemo Plug
Fiber Breakout Type: ST, SC, LC, FC
Length: 1.5' or 3'

Components

Cable Type	CWF-01SMR Single-Mode Simplex Breakout Fiber 22 AWG Stranded for Signal Contacts 16 AWG Stranded for Aux Contacts 16 AWG Ground Wire for Connector Body to Shield Pin	Overall Jacket: None
Connector Type	Lemo SMPTE-304M Stainless Steel Bulkhead (Socket or Plug) with Dust Cap and Lanyard Premium ST/SC/LC/FC Connectors with Dust Caps and Lanyards AMP 6-Pos Mate-N-Lok Electrical Contact	Connector Finish: Stainless Steel (Lemo)

Performance Characteristics

DC Resistance	Optical Attenuation and Return Loss	Operating Temperature
22AWG Signal Conductors: 13.9 Ω/Mft 16AWG Aux Conductor: 4.4 Ω/Mft	>0.4db + 0.70dB/km >-45dB SRL (-55dB Typical)	-40˚C to 75˚C

See CWF-01SMR cable specifications for additional information and performance characteristics of simplex fiber.

Neutrik® opticalCON® SMPTE Assemblies

Two-Channel Fiber and Copper Hybrid Camera Cable

- SMPTE 311M Camera Cable
- Two Fiber and Four Copper Elements
- Rugged Connector Body
- Self-Actuating Protective Shutters
- LC 1.25mm Contacts
- Protective Overbody Boots
- Integrated Dust Caps with Lanyards

Part Number: **X-HFC(cable type)-(length)-NO2**
Description: SMPTE 311M Camera Cable with Neutrik opticalCON Connectors

Options: **Cable Type:** TP = Extra-Flexible TPE, PV = Flexible PVC & UL Riser Rated

Components

Cable Type	Clark HFCTP (Flexible/Field) or HFCPV (UL Riser) 2 - SM 900u Hytrel Tight Buffered Fibers 2 - 24AWG Signal Conductors 4 - 20AWG Aux Conductors 1 - 16AWG Galvanized Steel Strength Member 95% - Overall Braid Shield	Overall Jacket: Black TPE or Black PVC
Connector Type	Neutrik opticalCON DUO Advanced for SMPTE Cable Overbody Rubber Boot with Integrated Dust Caps and Lanyards	Connector Finish: Dark Grey

Performance Characteristics

DC Resistance	Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
24AWG Signal Conductors: 23.5 Ω/Mft 20AWG Aux Conductor: 9.6 Ω/Mft Shield: 5.2 Ω/Mft	>0.4db + 0.70dB/km >-45dB SRL (-55dB Typical)	2.54"	-40˚C to 75˚C (HFCTP) -20˚C to 75˚C (HFCPV)

See HFCTP or HFCPV cable specifications for additional information and performance characteristics.

Neutrik® opticalCON® to Lemo 3K SMPTE Assemblies

Two-Channel Fiber and Copper Hybrid Camera Adapter Cable

- SMPTE 311M Camera Cable
- Two Fiber and Four Copper Elements
- Rugged Connector Bodies
- Protective Overbody Boots
- Integrated Dust Caps with Lanyards
- Lemo 3K SMPTE In-line or Bulkhead
- Neutrik opticalCON SMPTE In-line

Part Number: **X-HFC(cable type) - (length) - NO2 - (Lemo connector type)**
Description: SMPTE 311M Camera Cable with Neutrik opticalCON and Lemo 3K SMPTE Connectors

Options:
Cable Type: TP = Extra-Flexible TPE, PV = Flexible PVC & UL Riser Rated
Length: Given in Feet
Lemo Type: P = Inline Plug
PB = Bulkhead Plug
S = Inline Socket
SB = Bulkhead Socket

Components

Cable Type	Clark HFCTP (Flexible/Field) or HFCPV (UL Riser) 2 - SM 900u Hytrel Tight Buffered Fibers 2 - 24AWG Signal Conductors 4 - 20AWG Aux Conductors 1 - 16AWG Galvanized Steel Strength Member 95% - Overall Braid Shield	Overall Jacket: Black TPE or Black PVC
Connector Type	Neutrik opticalCON DUO SMPTE Advanced with Overbody Rubber Boot and Cap Lemo 3K Stainless Steel SMPTE with Overbody Rubber Boot and Cap	Connector Finish: Dark Grey (opticalCON) Stainless Steel (Lemo 3K)

Performance Characteristics

DC Resistance	Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
24AWG Signal Conductors: 23.5 Ω/Mft 20AWG Aux Conductor: 9.6 Ω/Mft Shield: 5.2 Ω/Mft	>0.4db + 0.70dB/km >-45dB SRL (-55dB Typical)	2.54"	-40˚C to 75˚C (HFCTP) -20˚C to 75˚C (HFCPV)

See HFCTP or HFCPV cable specifications for additional information and performance characteristics.

Neutrik® opticalCON® DUO Fiber Assemblies

Two-Channel Tactical for Commercial AV Applications

- Heavy Duty Tactical Fiber Cable
- Rugged Connector Body
- Self-Actuating Protective Shutters
- SM or MM OM3 Fiber
- Two Strand Fiber
- LC 1.25mm Contacts
- Protective Overbody Boots
- Integrated Dust Caps with Lanyards

Part Number: **X - NOC2(fiber type) - (length)**
Description: Neutrik opticalCON DUO Tactical Fiber Assembly

Options: **Fiber Type:** S=Single-mode, M=Multi-mode 50u OM3
Length: Any up to 5000'

Components

Cable Type	SM or MM 50u OM-3 Glass Fiber 2 Strands UV Cured Acrylate Hard Elastomeric Tight Buffer Aramid Yarn	Overall Jacket: Black Polyurethane
Connector Type	Neutrik opticalCON DUO Advanced Overbody Rubber Boot with Integrated Dust Caps and Lanyards	Connector Finish: Dark Grey

Performance Characteristics

Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
>0.5db + 0.70dB/km (SM @ 1310nm/1550nm) >0.5dB + 3.00dB/km (MM 50u OM-3 @ 850nm) >0.5dB + 1.00dB/km (MM 50u OM-3 @ 1310nm) >-45dB SRL (-55dB Typical) SM	1.6"	-40˚C to +85˚C

Neutrik® opticalCON® QUAD Fiber Assemblies

Four-Channel Tactical for Commercial AV Applications

- Heavy Duty Tactical Fiber Cable
- Rugged Connector Body
- Self-Actuating Protective Shutters
- SM or MM OM3 Fiber
- Four Strand Fiber
- LC 1.25mm Contacts
- Protective Overbody Boots
- Integrated Dust Caps with Lanyards

Part Number: **X - NOC4(fiber type) - (length)**
Description: Neutrik opticalCON QUAD Tactical Fiber Assembly

Options: **Fiber Type:** S=Single-mode, M=Multi-mode 50u OM3
Length: Any up to 5000'

Components

Cable Type	SM or MM 50u OM-3 Glass Fiber 4 Strands UV Cured Acrylate Hard Elastomeric Tight Buffer Aramid Yarn	Overall Jacket: Black Polyurethane
Connector Type	Neutrik opticalCON QUAD Advanced Overbody Rubber Boot with Integrated Dust Caps and Lanyards	Connector Finish: Dark Grey

Performance Characteristics

Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
>0.5db + 0.70dB/km (SM @ 1310nm/1550nm) >0.5dB + 3.00dB/km (MM 50u OM-3 @ 850nm) >0.5dB + 1.00dB/km (MM 50u OM-3 @ 1310nm) >-45dB SRL (-55dB Typical) SM	1.7"	-55˚C to +85˚C

Neutrik® opticalCON® DUO Breakout

Two-Channel Tactical Connector to ST/SC/LC/FC Fan

- Heavy Duty Tactical Fiber Cable
- Rugged Connector Body
- Self-Actuating Protective Shutters
- SM or MM OM3 Fiber
- Two Strand Fiber
- Protective Overbody Boots
- Integrated Dust Caps with Lanyards
- ST, SC, LC or FC Breakout Fan

Part Number: **X - NOC2(fiber type) - (length) - (fiber breakout connector)**
Description: Neutrik opticalCON DUO to Breakout Assembly

Options:
Fiber Type: S=Single-mode, M=Multi-mode 50u OM3
Length: Any up to 5000'
Fiber Breakout Connector: ST, SC, LC, FC

Components

Cable Type	SM or MM 50u OM-3 Glass Fiber 2 Strands UV Cured Acrylate Hard Elastomeric Tight Buffer Aramid Yarn	Overall Jacket: Black Polyurethane
Connector Type	Neutrik opticalCON DUO Advanced Overbody Rubber Boot with Integrated Dust Caps and Lanyards	Connector Finish: Dark Grey

Performance Characteristics

Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
>0.5db + 0.70dB/km (SM @ 1310nm/1550nm) >0.5dB + 3.00dB/km (MM 50u OM-3 @ 850nm) >0.5dB + 1.00dB/km (MM 50u OM-3 @ 1310nm) >-45dB SRL (-55dB Typical) SM	1.6"	-40˚C to +85˚C

Neutrik® opticalCON® QUAD Breakout

Four-Channel Tactical Connector to ST/SC/LC/FC Fan

- Heavy Duty Tactical Fiber Cable
- Rugged Connector Body
- Self-Actuating Protective Shutters
- SM or MM OM3 Fiber
- Four Strand Fiber
- Protective Overbody Boots
- Integrated Dust Caps with Lanyards
- ST, SC, LC or FC Breakout Fan

Part Number: **X - NOC4(fiber type) - (length) - (fiber breakout connector)**
Description: Neutrik opticalCON QUAD to Breakout Assembly

Options:
Fiber Type: S=Single-mode, M=Multi-mode 50u OM3
Length: Any up to 5000'
Fiber Breakout Connector: ST, SC, LC, FC

Components

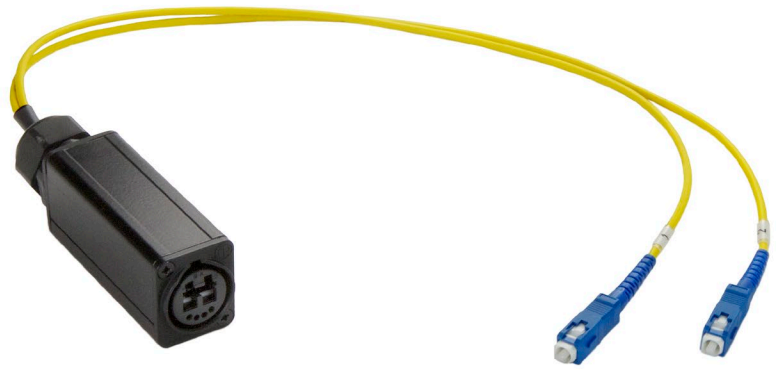
Cable Type	SM or MM 50u OM-3 Glass Fiber 4 Strands UV Cured Acrylate Hard Elastomeric Tight Buffer Aramid Yarn	Overall Jacket: Black Polyurethane
Connector Type	Neutrik opticalCON QUAD Advanced Overbody Rubber Boot with Integrated Dust Caps and Lanyards	Connector Finish: Dark Grey

Performance Characteristics

Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
>0.5db + 0.70dB/km (SM @ 1310nm/1550nm) >0.5dB + 3.00dB/km (MM 50u OM-3 @ 850nm) >0.5dB + 1.00dB/km (MM 50u OM-3 @ 1310nm) >-45dB SRL (-55dB Typical) SM	1.7"	-55˚C to +85˚C

Neutrik® opticalCON® DUO NOBO Breakout

Two-Channel Breakout to ST/SC/LC/FC Fan



- opticalCON DUO Breakout
- Mates to Cable Mount Version
- Actuating Protective Shutters
- SM or MM OM3 Fiber
- All Metal NOBO Chassis
- Integrated Strain Relief
- ST, SC, LC or FC Breakout Fan

Part Number: **X - NOBO - D - (fiber type) - (fiber breakout connector)**
Description: Neutrik opticalCON DUO to ST/SC/LC/FC Breakout

Options:
Fiber Type: S=Single-mode, M=Multi-mode 50u OM3
Fiber Breakout Connector: ST, SC, LC, FC

Components

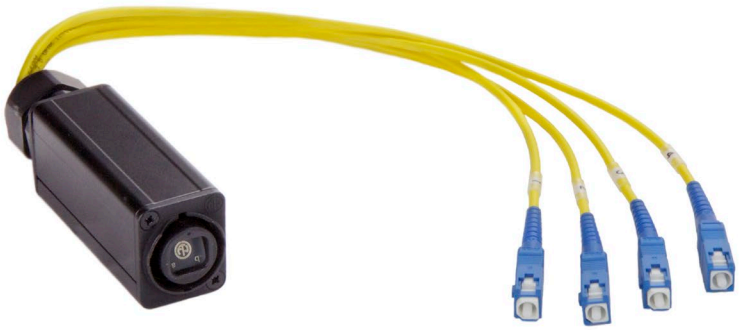
Cable Type	CWF-01SMR Simplex Breakout Fiber (Single-Mode) CWF-01MM53R Simplex Breakout Fiber (50u OM3 Multi-Mode)	Overall Jacket: Yellow PVC (Single-Mode) Aqua PVC (OM3 Multi-Mode)
Connector Type	Neutrik opticalCON DUO Advanced Panel Mount (mates with in-line opticalCON DUO connectors)	Connector Finish: Black

Performance Characteristics

Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
>0.5db + 0.70dB/km (SM @ 1310nm/1550nm) >0.5dB + 3.00dB/km (MM 50u OM-3 @ 850nm) >0.5dB + 1.00dB/km (MM 50u OM-3 @ 1310nm) >-45dB SRL (-55dB Typical) SM	1.2"	-20˚C to +85˚C

Neutrik® opticalCON® QUAD NOBO Breakout

Four-Channel Breakout to ST/SC/LC/FC Fan



- opticalCON QUAD Breakout
- Mates to Cable Mount Version
- Actuating Protective Shutters
- SM or MM OM3 Fiber
- All Metal NOBO Chassis
- Integrated Strain Relief
- ST, SC, LC or FC Breakout Fan

Part Number: **X - NOBO - Q - (fiber type) - (fiber breakout connector)**
Description: Neutrik opticalCON QUAD to ST/SC/LC/FC Breakout

Options:
Fiber Type: S=Single-mode, M=Multi-mode 50u OM3
Fiber Breakout Connector: ST, SC, LC, FC

Components

Cable Type	CWF-01SMR Simplex Breakout Fiber (Single-Mode) CWF-01MM53R Simplex Breakout Fiber (50u OM3 Multi-Mode)	Overall Jacket: Yellow PVC (Single-Mode) Aqua PVC (OM3 Multi-Mode)
Connector Type	Neutrik opticalCON QUAD Advanced Panel Mount (mates with in-line opticalCON QUAD connectors)	Connector Finish: Black

Performance Characteristics

Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
>0.5db + 0.70dB/km (SM @ 1310nm/1550nm) >0.5dB + 3.00dB/km (MM 50u OM-3 @ 850nm) >0.5dB + 1.00dB/km (MM 50u OM-3 @ 1310nm) >-45dB SRL (-55dB Typical) SM	1.2"	-20˚C to +85˚C

Tactical Breakout Fiber Assemblies

ST/SC/LC/FC Terminated Cables for Hostile Environments

- Heavy Duty Tactical Fiber Cable
- Choice of ST/SC/LC/FC Connectors
- Internally Furcated Breakout Fibers
- Single-Mode or Multi-Mode Fiber
- Optional Rubber Boot
- Dust Caps with Lanyards
- 2, 4, 6, 8 or 12 Strands

Part Number: **X-CWFBT(fiber type)(number of strands)-(length)-(connector type)**
Description: ST/SC/LC/FC Tactical Breakout Fiber Cable Assemblies

Options:
Fiber Type: SM=Single-mode, M1=Multi-mode 62.5u OM1, M2=Multi-mode 50u OM2, M3=Multi-mode 50u OM3, M4=Multi-mode 50u OM4
Number of Strands: 2, 4, 6, 8, or 12
Length: Any up to 5000'
Connector Type: ST, SC, LC, FC

Components

Cable Type	Clark BMT-T Series SM, MM 62.5u, MM 50u OM-2, MM 50u OM-3, or MM 50u OM-4 Glass Fiber UV Cured Acrylate Hard Elastomeric Tight Buffer Aramid Yarn (per fiber) Elastomer Breakout Jacket (per fiber) Aramid Yarn (additional overall filler)	Overall Jacket: Black Polyurethane
Connector Type	Premium ST/SC/LC/FC Connectors Integrated Dust Caps with Lanyards	Connector Finish: Varies

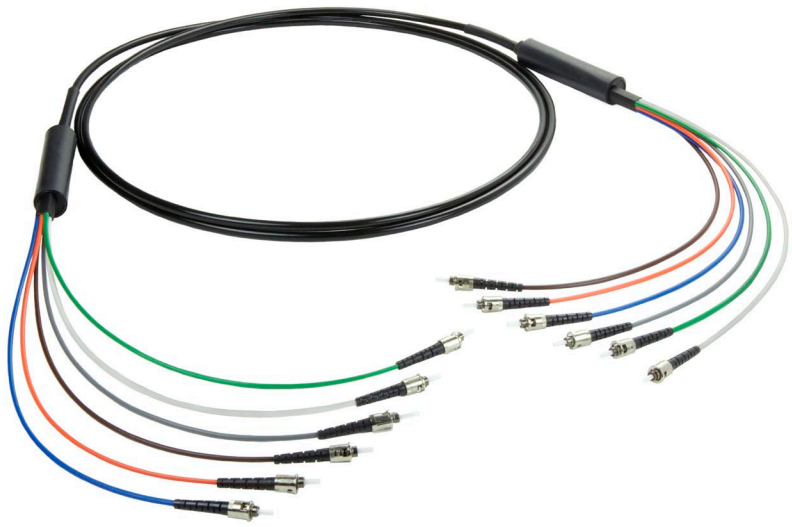
Performance Characteristics

Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
>0.5db + 0.70dB/km (SM @ 1310nm/1550nm) >0.5dB + 3.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 850nm) >0.5dB + 1.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-3 @ 850nm) >0.5dB + 1.00dB/km (MM 50u OM-3 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-4 @ 850nm) >0.5dB + 1.20dB/km (MM 50u OM-4 @ 1310nm) >-45dB SRL (-55dB Typical) SM	3.2" - 2 Strand 2.4" - 4 Strand 2.7" - 6 Strand 3.1" - 8 Strand 3.5" - 12 Strand	-40˚C to 85˚C

See BMT-T cable specifications for additional information and performance characteristics.

Tactical Distribution Fiber Assemblies

ST/SC/LC/FC Terminated Cables for Hostile Environments



- Heavy Duty Tactical Fiber Cable
- Choice of ST/SC/LC/FC Connectors
- Protective Breakout Fanout
- Single-Mode or Multi-Mode Fiber
- Optional Rubber Boot
- Dust Caps with Lanyards
- 2, 4, 6, 8 or 12 Strands

Part Number: **X-CWFDT(fiber type)(number of strands)-(length)-(connector type)**
Description: ST/SC/LC/FC Tactical Fiber Cable Assemblies

Options:
Fiber Type: SM=Single-mode, M1=Multi-mode 62.5u OM1, M2=Multi-mode 50u OM2, M3=Multi-mode 50u OM3, M4=Multi-mode 50u OM4
Number of Strands: 2, 4, 6, 8, or 12
Length: Any up to 5000'
Connector Type: ST, SC, LC, FC

Components

Cable Type	Clark DMT-T Series SM, MM 62.5u, MM 50u OM-2, MM 50u OM-3, or MM 50u OM-4 Glass Fiber UV Cured Acrylate Hard Elastomeric Tight Buffer Aramid Yarn	Overall Jacket: Black Polyurethane
Connector Type	Premium ST/SC/LC/FC Connectors Integrated Dust Caps with Lanyards	Connector Finish: Varies

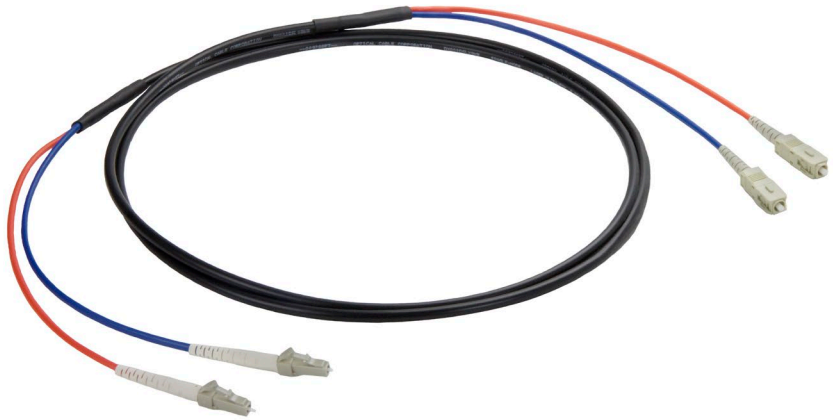
Performance Characteristics

Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
>0.5db + 0.70dB/km (SM @ 1310nm/1550nm) >0.5dB + 3.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 850nm) >0.5dB + 1.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-3 @ 850nm) >0.5dB + 1.00dB/km (MM 50u OM-3 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-4 @ 850nm) >0.5dB + 1.20dB/km (MM 50u OM-4 @ 1310nm) >-45dB SRL (-55dB Typical) SM	1.6" - 2 Strand 1.7" - 4 Strand 1.9" - 6 Strand 2.0" - 8 Strand 2.6" - 12 Strand	-40˚C to 85˚C

See DMT-T cable specifications for additional information and performance characteristics.

Permanent Install Distribution Fiber Assemblies

ST/SC/LC/FC Terminated Cables for Riser and Plenum Installations



- Riser or Plenum Rated Cable
- Choice of ST/SC/LC/FC Connectors
- Protective Breakout Fanout
- Single-Mode or Multi-Mode Fiber
- Dust Caps with Lanyards
- 2, 4, 6, 8 or 12 Strands

Part Number: **X-CWFD(UL type)(fiber type)(number of strands)-(length)-(connector type)**
Description: ST/SC/LC/FC Permanent Install Fiber Cable Assemblies

Options:
UL Type: R=Riser, P=Plenum
Fiber Type: SM=Single-mode, M1=Multi-mode 62.5u OM1, M2=Multi-mode 50u OM2, M3=Multi-mode 50u OM3, M4=Multi-mode 50u OM4
Number of Strands: 2, 4, 6, 8, or 12
Length: Any up to 5000'
Connector Type: ST, SC, LC, FC

Components

Cable Type	Clark DR Series (Riser) or DP Series (Plenum) SM, MM 62.5u, MM 50u OM-2, MM 50u OM-3, or MM 50u OM-4 Glass Fiber UV Cured Acrylate PVCTight Buffer Aramid Yarn	Overall Jacket: Black PVC
Connector Type	Premium ST/SC/LC/FC Connectors Integrated Dust Caps with Lanyards	Connector Finish: Varies

Performance Characteristics

Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
>0.5db + 0.70dB/km (SM @ 1310nm/1550nm) >0.5dB + 3.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 850nm) >0.5dB + 1.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-3 @ 850nm) >0.5dB + 1.00dB/km (MM 50u OM-3 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-4 @ 850nm) >0.5dB + 1.20dB/km (MM 50u OM-4 @ 1310nm) >-45dB SRL (-55dB Typical) SM	2 Strand - 1.9" (riser), 1.5" (plenum) 4 Strand - 2.0" (riser), 1.8" (plenum) 6 Strand - 2.2" (riser), 1.9" (plenum) 8 Strand - 2.3" (riser), 2.2" (plenum) 12 Strand - 2.6" (riser), 2.4" (plenum)	-40˚C to 85˚C (riser 4 - 24 strand) -40˚C to 70˚C (riser 2 strand) -20˚C to 85˚C (plenum)

See DR Series or DP Series cable specifications for additional information and performance characteristics.

Circular Ruggedized Dual LC Fiber Assemblies

Two-Channel Duplex Fiber Assemblies

- Heavy Duty Tactical Fiber Cable
- Circular Connector Body
- Single-Mode or Multi-Mode Fiber
- Two Fiber Strands
- LC Duplex 1.25mm Contacts
- Dust Caps with Lanyards
- Mating Twist Lock Connection
- IP68 Rated

Part Number: **X - RCF(fiber type) - (length)**
Description: Ruggedized Circular LC Duplex Cable Assembly
Options: **Fiber Type:** SM=Single-mode, M1=Multi-mode 62.5u OM1, M2=Multi-mode 50u OM2, M3=Multi-mode 50u OM3, M4=Multi-mode 50u OM4
Length: Any up to 5000'

Components

Cable Type	SM, MM 62.5u, MM 50u OM-2, MM 50u OM-3, or MM 50u OM-4 Glass Fiber 2 Strands UV Cured Acrylate Hard Elastomeric Tight Buffer Aramid Yarn	Overall Jacket: Black Polyurethane
Connector Type	Circular Duplex LC Connector - IEC61076-3-106 Type with Integrated Dust Caps and Lanyards IP68 Rated	Connector Finish: Black Plastic

Performance Characteristics

Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
>0.5db + 0.70dB/km (SM @ 1310nm/1550nm) >0.5dB + 3.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 850nm) >0.5dB + 1.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-3 @ 850nm) >0.5dB + 1.00dB/km (MM 50u OM-3 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-4 @ 850nm) >0.5dB + 1.20dB/km (MM 50u OM-4 @ 1310nm) >-45dB SRL (-55dB Typical) SM	1.6"	-40˚C to +85˚C

TAC-12 Tactical Fiber Assemblies

Hermaphroditic Twelve-Channel Fiber for Hostile Environments

- Heavy Duty Tactical Fiber Cable
- Rugged Hermaphroditic Shell
- Gender Reversible
- Single-Mode or Multi-Mode Fiber
- Twelve Strand Fiber
- 2.0mm Contacts
- Metal Dust Caps with Lanyards

Part Number: **X-CWFDT(fiber type)12 - (length) - S12**
Description: TAC-12 Twelve Channel Hermaphroditic Tactical Fiber Assemblies

Options: **Fiber Type:** SM=Single-mode, M1=Multi-mode 62.5u OM1, M2=Multi-mode 50u OM2, M3=Multi-mode 50u OM3, M4=Multi-mode 50u OM4

Components

Cable Type	Clark DMT-T Series SM, MM 62.5u, MM 50u OM-2, MM 50u OM-3, or MM 50u OM-4 Glass Fiber UV Cured Acrylate Hard Elastomeric Tight Buffer Aramid Yarn	Overall Jacket: Black Polyurethane
Connector Type	TAC-12 Twelve Channel Connector Integrated Dust Caps with Lanyards	Connector Finish: Anodized Black

Performance Characteristics

Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
>0.5db + 0.70dB/km (SM @ 1310nm/1550nm) >0.5dB + 3.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 850nm) >0.5dB + 1.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-3 @ 850nm) >0.5dB + 1.00dB/km (MM 50u OM-3 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-4 @ 850nm) >0.5dB + 1.20dB/km (MM 50u OM-4 @ 1310nm) >-45dB SRL (-55dB Typical) SM	2.6"	-40˚C to 85˚C

See DMT-T cable specifications for additional information and performance characteristics.

TFOCAII® - 12 Channel Tactical Fiber Assemblies

Hermaphroditic Multi-Fiber for Hostile Environments

- Heavy Duty Tactical Fiber Cable
- Rugged Hermaphroditic Shell
- Gender Reversible
- Single-Mode or Multi-Mode Fiber
- Twelve Strand Fiber
- 2.5mm Contacts
- Metal Dust Caps with Lanyards

Part Number: **X-CWFDT(fiber type)12 - (length) - T12**
Description: TFOCAII Twelve-Channel Hermaphroditic Tactical Fiber Assemblies

Options: **Fiber Type:** SM=Single-mode, M1=Multi-mode 62.5u OM1, M2=Multi-mode 50u OM2, M3=Multi-mode 50u OM3, M4=Multi-mode 50u OM4

Components

Cable Type	Clark DMT-T Series SM, MM 62.5u, MM 50u OM-2, MM 50u OM-3, or MM 50u OM-4 Glass Fiber UV Cured Acrylate Hard Elastomeric Tight Buffer Aramid Yarn	Overall Jacket: Black Polyurethane
Connector Type	TFOCAII - 12 Channel Twelve Channel Connector Integrated Dust Caps with Lanyards	Connector Finish: Anodized Black

Performance Characteristics

Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
>0.5db + 0.70dB/km (SM @ 1310nm/1550nm) >0.5dB + 3.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 850nm) >0.5dB + 1.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-3 @ 850nm) >0.5dB + 1.00dB/km (MM 50u OM-3 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-4 @ 850nm) >0.5dB + 1.20dB/km (MM 50u OM-4 @ 1310nm) >-45dB SRL (-55dB Typical) SM	2.6"	-40˚C to 85˚C

See DMT-T cable specifications for additional information and performance characteristics.

TFOCAII is a registered tradremark of Amphenol AFSI

T-FOCAII Four-Channel Tactical Assemblies

Hermaphroditic Multi-Channel Cables for Hostile Environments

- Heavy Duty Tactical Fiber Cable
- Rugged Hermaphroditic Shell
- Gender Reversible
- Single-Mode or Multi-Mode Fiber
- Four Strand Fiber
- T-FOCAII 2.5mm Contacts
- Metal Dust Caps with Lanyards

Part Number: **X-CWFDT(fiber type)4 - (length) - T2**
Description: Four-Channel Hermaphrditic Tactical Fiber Assemblies

Options: **Fiber Type:** SM=Single-mode, M1=Multi-mode 62.5u OM1, M2=Multi-mode 50u OM2, M3=Multi-mode 50u OM3, M4=Multi-mode 50u OM4
Length: Any up to 5000'

Components

Cable Type	Clark DMT-T Series SM, MM 62.5u, MM 50u OM-2, MM 50u OM-3, or MM 50u OM-4 Glass Fiber UV Cured Acrylate Hard Elastomeric Tight Buffer Aramid Yarn	Overall Jacket: Black Polyurethane
Connector Type	T-FOCAII Four Channel Connector Integrated Dust Caps with Lanyards	Connector Finish: Anodized Black

Performance Characteristics

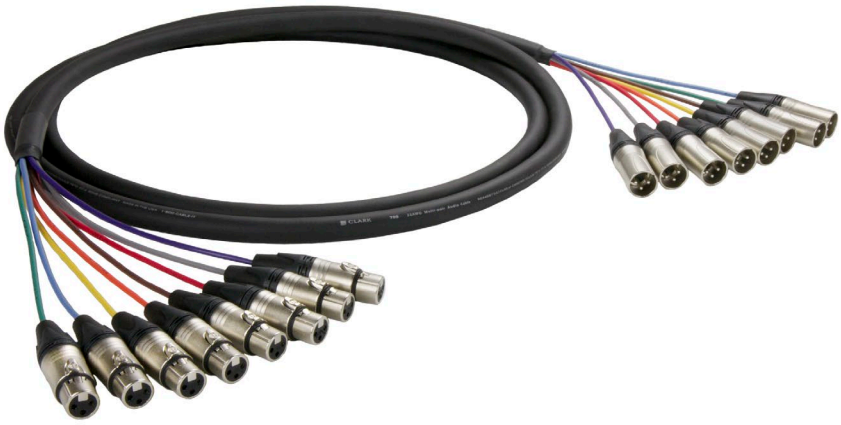
Optical Attenuation and Return Loss	Minimum Bend Radius	Operating Temperature
>0.5db + 0.70dB/km (SM @ 1310nm/1550nm) >0.5dB + 3.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 850nm) >0.5dB + 1.50dB/km (MM 62.5u OM-1 or 50u OM-2 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-3 @ 850nm) >0.5dB + 1.00dB/km (MM 50u OM-3 @ 1310nm) >0.5dB + 3.00dB/km (MM 50u OM-4 @ 850nm) >0.5dB + 1.20dB/km (MM 50u OM-4 @ 1310nm) >-45dB SRL (-55dB Typical) SM	1.7"	-40˚C to 85˚C

See DMT-T cable specifications for additional information and performance characteristics.

TFOCAII is a registered tradremark of Amphenol AFSI

Multi-pair Audio Snake

22AWG Audio Multi-Channel Cable Assemblies



- Extra-Flexible and UL Rated
- Low-Noise, High CMNR
- Polypropylene Dielectric
- Color Coded and Numbered Pairs
- 22AWG Stranded Conductors
- Individually Shielded and Jacketed
- 4, 6, 8, 12, 16, and 24 Pair Versions

Part Number: **X-7(number of pairs) - (length) - (connectors side 1) - (connectors side 2)**
Description: 22AWG Audio Multi-Pair Snake Cable
Options:

Number of Pairs: 4, 6, 8 ,12, 16, 24
Length: Given in Feet
Connector Breakout:
XF = Female XLR - Neutrik , Nickel
XFB = Female XLR - Neutrik , Black/Nickel
XFBG = Female XLR - Neutrik , Black/Gold
XM = Male XLR - Neutrik , Nickel
XMB = Male XLR - Neutrik , Black/Nickel
XMBG = Male XLR - Neutrik , Black/Gold
TRS = 1/4" TRS - Neutrik, Nickel/Nickel (NP3X)
TRSB = 1/4" TRS - Neutrik, Black/Nickel (NP3X-BAG)
TRSBG = 1/4" TRS - Neutrik, Black/Gold (NP3X-B)
TS = 1/4" TS - Neutrik, Nickel/Nickel (NP2X)
TSB = 1/4" TS - Neutrik, Black/Nickel (NP2X-BAG)
TSBG = 1/4" TS - Neutrik, Black/Gold (NP2X-B)
D25M = Male D-Sub 25-Pin (up to 8-pair cables)
E56M = EDAC 56-Pin Male (up to 16-pair cables)
E90M = EDAC 90-Pin Male (up to 24-pair cables)

Components

Cable Type	Clark 700 Series Multi-Pair 22AWG Stranded TC Conductors Polypropylene Insulation Each Pair 100% Foil Shielded and Jacketed Color Coded and Numbered Pairs Additional Overall Foil Shield Extra-Flexible Overall TPE Jacket	Overall Jacket: Extra-Flexible Black TPE
Connector Type	Neutrik XLR, Neutrik TRS, Neutrik TS, D-Sub 25, EDAC 56-Pin, or EDAC 90-Pin	Connector Finish: Varies

Performance Characteristics

DC Resistance	Capacitance	Temperature Range	UL Listing
Conductor: 14.1 Ω/Mft Shield w/ Drain: 12.5 Ω/Mft	25.7 pF/ft between conductors 47.3 pF/ft between one conductor and other in common with shield	-30 °C to 75°C	CMR

See 700 Series cable specifications for additional information and performance characteristics.

Digital Audio Multi-Pair Assembly

26AWG 110Ω AES/EBU Digital Audio

- Extra-Flexible and UL Rated
- 110Ω AES/EBU Pairs
- 26AWG Stranded Conductors
- Foam PP Dielectric
- Color Coded and Numbered Pairs
- Individually Shielded and Jacketed
- 4, 8, 12, 16, or 24 Pairs

Part Number: **X-9(number of pairs) - (length) - (connectors side 1) - (connectors side 2)**
Description: 26AWG 110Ω Digital Audio Multi-Pair Assembly
Options:

Number of Pairs: 4*, 8 ,12*, 16*, 24*
Length: Given in Feet
Connector Breakout:
XFBG = Female XLR - Neutrik , Black/Gold
XMBG = Male XLR - Neutrik , Black/Gold
D25M = Male D-Sub 25-Pin (up to 8-pair cables)
E56M = EDAC 56-Pin Male (up to 16-pair cables)
E90M = EDAC 90-Pin Male (up to 24-pair cables)

Components

Cable Type	Clark 900 Series Multi-Pair 26AWG Stranded TC Conductors Foam PP Insulation Each Pair 100% Foil Shielded and Jacketed Color Coded and Numbered Pairs Extra-Flexible Overall TPE Jacket	Overall Jacket: Extra-Flexible Black TPE
Connector Type	Neutrik XLR, D-Sub 25, EDAC 56-Pin, or EDAC 90-Pin	Connector Finish: Varies

Performance Characteristics

DC Resistance	Capacitance	Characteristic Impedance	Temperature Range	UL Listing
Conductor: 38.5 Ω/Mft Shield w/ Drain: 35.2 Ω/Mft	12.5 pF/ft between conductors 22.5 pF/ft between one conductor and other in common with shield	110Ω	-30 ˚C to 75˚C	CMR

Frequency	1 MHz	3 MHz	6 MHz	12 MHz	25 MHz
Attenuation dB/100 feet	1.23	1.86	2.37	3.16	4.18
Attenuation dB/100 meters	4.04	6.10	7.77	10.4	13.7

See 900 Series cable specifications for additional information and performance characteristics.

* Note: 4, 12, 16 and 24 pair versions may require a minimum order, please contact Clark for details.

STUDIO-FLEX™ Thin-Profile Microphone Cables

24AWG Two-Conductor Reduced Diameter Design

- Extra-Flexible PVC Jacket
- Low-Noise, High CMNR
- 24 AWG Stranded Tinned Copper
- Two Conductors
- Polpropylene Dielectric
- 95% TC Braid Shield
- Terminated with Neutrik Connectors

Part Number: **X - SF224 - (length) - 0 - (connectors side 1) - (connectors side 2)**
Description: 24AWG 2C Studio-Flex Microphone Cable Assembly
Options:

Length: Given in Feet
Connector Options:
XF = Female XLR - Neutrik , Nickel (NC3FXX)
XFB = Female XLR - Neutrik , Black/Nickel (NC3FXX-BAG)
XFBG = Female XLR - Neutrik , Black/Gold (NC3FXX-B)
XM = Male XLR - Neutrik , Nickel (NC3MXX)
XMB = Male XLR - Neutrik , Black/Nickel (NC3MXX-BAG)
XMBG = Male XLR - Neutrik , Black/Gold (NC3MXX-B)
TRS = 1/4" TRS - Neutrik, Nickel/Nickel (NP3X)
TRSB = 1/4" TRS - Neutrik, Black/Nickel (NP3X-BAG)
TRSBG = 1/4" TRS - Neutrik, Black/Gold (NP3X-B)
TS = 1/4" TS - Neutrik, Nickel/Nickel (NP2X)
TSB = 1/4" TS - Neutrik, Black/Nickel (NP2X-BAG)
TSBG = 1/4" TS - Neutrik, Black/Gold (NP2X-B)

Components

Cable Type	Clark SF224 Microphone Cable 24 AWG (41x40) Stranded TC .012" Polypropylene Insulation (black & white) 95% TC Braid Extra-Flexible PVC Jacket .190" Overall Diameter	Overall Jacket: Black
Connector Type	Neutrik XX series XLR, Neutrik NP3X series TRS, Neutrik NP2X series TS	Connector Finish: Varies

Performance Characteristics

DC Resistance	Capacitance	Temperature Range	Weight
Conductor: 25.4 Ω/Mft Shield: 6.0 Ω/Mft	20.5 pF/ft between conductors 36.8 pF/ft between one conductor and other in common with shield	-20 ˚C to 75˚C	24 lbs/Mft

See SF224 cable specifications for additional information and performance characteristics.

MINK4™ Microphone Cables

24AWG Quad-Star Low-EMI Design

- Extra-Flexible PVC Jacket
- Low-Noise, High CMNR
- 24 AWG Stranded Bare Copper
- Four Conductors - Quad Star
- Polyethylene Dielectric
- 95% TC Braid Shield
- Terminated with Neutrik Connectors

Part Number: **X - MINK4 - (length) - 0 - (connectors side 1) - (connectors side 2)**
Description: 24AWG 4 Conductor MINK4 Microphone Cable Assembly
Options:

Length: Given in Feet

Connector Options:
XF = Female XLR - Neutrik , Nickel (NC3FXX)
XFB = Female XLR - Neutrik , Black/Nickel (NC3FXX-BAG)
XFBG = Female XLR - Neutrik , Black/Gold (NC3FXX-B)
XM = Male XLR - Neutrik , Nickel (NC3MXX)
XMB = Male XLR - Neutrik , Black/Nickel (NC3MXX-BAG)
XMBG = Male XLR - Neutrik , Black/Gold (NC3MXX-B)
TRS = 1/4" TRS - Neutrik, Nickel/Nickel (NP3X)
TRSB = 1/4" TRS - Neutrik, Black/Nickel (NP3X-BAG)
TRSBG = 1/4" TRS - Neutrik, Black/Gold (NP3X-B)
TS = 1/4" TS - Neutrik, Nickel/Nickel (NP2X)
TSB = 1/4" TS - Neutrik, Black/Nickel (NP2X-BAG)
TSBG = 1/4" TS - Neutrik, Black/Gold (NP2X-B)

Components

Cable Type	Clark MINK4 Microphone Cable 24AWG (41x40) Stranded BC .015" Polyethylene Insulation (blue & light blue, white & yellow) 95% TC Braid with 24AWG (7x32) Stranded TC Drain Extra-Flexible PVC Jacket .236" Overall Diameter	Overall Jacket: Black
Connector Type	Neutrik XX series XLR, Neutrik NP3X series TRS, Neutrik NP2X series TS	Connector Finish: Varies

Performance Characteristics

DC Resistance	Capacitance	Temperature Range	Weight
Conductor: 25.4 Ω/Mft Shield w/ Drain: 5.2 Ω/Mft	39 pF/ft between conductors 57 pF/ft between one conductor and other in common with shield	-35 °C to 75°C	41 lbs/Mft

See MINK4 cable specifications for additional information and performance characteristics.

FIELD-FLEX™ Heavy Duty Microphone Cables

20WG Two-Conductor Extra-Rugged Design

- Extra-Flexible PVC Jacket
- Low-Noise, High CMNR
- Low-Loss 20 AWG Copper
- Two Conductors
- Polyethylene Dielectric
- 95% TC Braid Shield
- Terminated with Neutrik Connectors

Part Number: **X - FF220 - (length) - 0 - (connectors side 1) - (connectors side 2)**
Description: 20AWG 2C Field-Flex Microphone Cable Assembly
Options:

Length: Given in Feet
Connector Options:
XF = Female XLR - Neutrik , Nickel (NC3FXX)
XFB = Female XLR - Neutrik , Black/Nickel (NC3FXX-BAG)
XFBG = Female XLR - Neutrik , Black/Gold (NC3FXX-B)
XM = Male XLR - Neutrik , Nickel (NC3MXX)
XMB = Male XLR - Neutrik , Black/Nickel (NC3MXX-BAG)
XMBG = Male XLR - Neutrik , Black/Gold (NC3MXX-B)
TRS = 1/4" TRS - Neutrik, Nickel/Nickel (NP3X)
TRSB = 1/4" TRS - Neutrik, Black/Nickel (NP3X-BAG)
TRSBG = 1/4" TRS - Neutrik, Black/Gold (NP3X-B)
TS = 1/4" TS - Neutrik, Nickel/Nickel (NP2X)
TSB = 1/4" TS - Neutrik, Black/Nickel (NP2X-BAG)
TSBG = 1/4" TS - Neutrik, Black/Gold (NP2X-B)

Components

Cable Type	Clark FF220 Microphone Cable 20 AWG (41x36) Stranded TC .018" Polyethylene Insulation (black & white) 95% TC Braid with 24AWG (41x40) Stranded TC Drain Extra-Flexible PVC Jacket .280" Overall Diameter	Overall Jacket: Black
Connector Type	Neutrik XX series XLR, Neutrik NP3X series TRS, Neutrik NP2X series TS	Connector Finish: Varies

Performance Characteristics

DC Resistance	Capacitance	Temperature Range	Weight
Conductor: 10.1 Ω/Mft Shield w/ Drain: 3.8 Ω/Mft	25.7 pF/ft between conductors 47.3 pF/ft between one conductor and other in common with shield	-35 °C to 75°C	47 lbs/Mft

See FF220 cable specifications for additional information and performance characteristics.

Neutrik speakON® Cables

Heavy-Duty Portable Speaker Assemblies

- Extra-Flexible
- Abrasion Resistant
- 12AWG or 13AWG Conductors
- 2, 4, or 8 Conductors
- Neutrik speakON® Connectors
- All-Metal Shell Options

Part Number: **X-SPKR(gauge)(number of conductors) - (length) - (connector type)**
Description: Neutrik speakON Speaker Cables
Options:

Gauge:
12 = 12 AWG for 2C assemblies
13 = 13AWG for 4C and 8C assemblies

Number of Conductors: 2, 4, 8

Length: Given in Feet

Connector Type:
NL2FX = 2-Pole speakON FX Series
NL4FX = 4-Pole speakON FX Series
NLT4FX = 4-Pole speakON FX Series with All-Metal Back Shell
NL8FC = 8-Pole speakON FC Series
NLT8FX = 8-Pole speakON FX Series with All-Metal Back Shell

Components

Cable Type	12AWG - SPKR1202 (2-Pole Cables), 13AWG - SPKR1304 (4-Pole Cables), or 13AWG - SPKR1308 (8-Pole Cables) Stranded Bare Copper PVC Insulation Ultra-Flexible TPE Jacket	Overall Jacket: Ultra-Flexible TPE, Black
Connector Type	Neutrik speakON® Connectors (2-Pole, 4-Pole, or 8-Pole)	Connector Finish: Varies

Performance Characteristics

DC Resistance	Temperature Range
12AWG Conductor: 1.6 Ω/Mft 13AWG Conductor: 2.2 Ω/Mft	-25˚C to 60˚C

See SPKR1202, SPKR1304, and SPKR1308 cable specifications for additional information and performance characteristics.

Neutrik etherCON® Cat5E Assemblies

Ruggedized RJ45 Network Cables

- Heavy Duty Tactical Cable
- Cat5E 100MHz Bandwidth
- Gigabit Networking
- Four Twisted Data Pairs
- Internal RJ45 Cat5E Connector
- Shielded or Unshielded Cable
- Neutrik etherCON® Connectors

Part Number: **X - CN(type) - (length) - NE8**
Description: Neutrik etherCON Cat5E Cable Assemblies
Options: **Type:** 424C5TF = unshielded, 426C5TFS = shielded
Length: Any up to 230' (CN424C5TF) or 262' (CN426C5TFS)

Components

Cable Type	Clark CN424C5TF or CN426TFS CN424C5TF - 24AWG Stranded, Unshielded Tactical Cat5E CN426C5TFS - 26AWG Stranded, Shielded Tactical Cat5E	Overall Jacket: Black Polyurethane
Connector Type	Neutrik etherCON NE8MC-1 Cat5E Locking Connector	Connector Finish: Black & Nickle

Performance Characteristics

DCR	Maximum Distance	Characteristic Impedance	Skew	Capacitance	Operating Temperature
26.0 Ω/100m (24AWG Stranded CN424C5TF) 42.6 Ω/100m (26AWG Stranded CN426C5TFS)	CN424C5TF - 24AWG: 70m CN426C5TFS - 26AWG Shielded: 80m	100Ω (+/- 15)	25 ms/100m (max.)	13.5 pF/ft (mutual)	-40˚C to 75˚C

See CN424C5TF and CN426TFS cable specifications for additional information and performance characteristics.

Neutrik etherCON® Cat6 Assemblies

Ruggedized RJ45 Network Connector Cables

- Cat6 550MHz Shielded Cable
- IP65 Rated (when mated)
- Four Twisted Data Pairs
- PVC Outer Jacket
- Internal Cat6 RJ45 Connector
- Neutrik etherCON® Housing

Part Number: **X - CN423C6S - (length) - (connector type)**
Description: Neutrik etherCON Cat6 Cable Assemblies
Options: **Length:** Any up to 328'
Connector Type: NE8 = Locking Cat6 etherCON, NE86 = Push-Pull Cat6 etherCON

Components

Cable Type	Clark CN423C6S - Shielded 23AWG Cat6 550MHz Network Cable	Overall Jacket: PVC
Connector Type	Neutrik etherCON NE8MC1 with RG45 Cat6 Locking Connectors (NE8 type) Neutrik etherCON NE8MC6-MO Cat6 Push-Pull Connectors (NE86 type)	Connector Finish: Black and Nickle

Performance Characteristics

DCR	Max Distance	DCR Unbalance	Characteristic Impedance	Skew	Capacitance	Operating Temperature	Agency Listing
9.38 Ω/100m	100m	5%	100Ω (+/- 15)	45 ms/100m (max.)	5.6 nF/100m (mutual) 330 pF/100m (pair-to-pair ground unbalanced)	0˚C to 60˚C	CMR C(ETL) FT-4 ETL Listed & Verified

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100	155	200	250	300	350	400	450	500	550
Insertion Loss	max. dB/100m	2.0	3.8	5.3	5.9	7.4	8.3	9.3	10.4	14.9	19.0	23.9	27.4	30.8	34.0	37.0	39.7	42.1	44.9	47.3
Return Loss	min. dB/100m	20.0	23.6	25.4	26.0	26.0	26.0	25.5	25.0	23.5	22.5	21.6	21.0	20.5	20.1	19.8	19.5	19.2	19.0	18.8
NEXT	min. dB/100m	77.3	68.3	63.8	62.3	59.3	57.8	56.3	54.9	50.4	47.3	45.8	42.8	41.3	40.2	39.2	38.3	37.5	36.8	36.2
PS-NEXT	min. dB/100m	75.3	66.3	61.8	30.3	57.3	55.8	54.3	52.9	48.4	45.3	43.5	40.8	39.3	38.2	37.2	36.3	35.5	34.8	34.2
ELFEXT	min. dB/100m	70.8	58.7	52.7	50.8	46.7	44.7	42.8	40.9	34.8	30.8	27.0	24.7	22.8	21.2	19.9	18.7	17.7	16.8	15.9
PS-ELFEXT	min. dB/100m	67.8	55.7	49.7	47.8	43.7	41.7	39.8	37.9	31.8	27.8	23.6	21.7	19.8	18.2	16.9	15.7	14.7	13.8	12.9
ACR	min. dB/100m	75.0	64.0	57.7	55.6	50.7	48.2	45.6	42.8	32.9	24.9	21.0	18.4	13.5	9.6	5.2	1.5	-	-	-
PS-ACR	min. dB/100m	73.0	62.0	55.7	53.6	48.7	16.2	13.6	40.8	30.9	22.9	21.5	16.4	11.5	5.0	3.2	-	-	-	-

See CN423C6S cable specifications for additional information and performance characteristics.

Neutrik etherCON Cat6A 10Gb/s Assemblies

Ruggedized RJ45 Cables for 10-Gigabit Networks

- Cat6A 10-Gigabit Networking
- 500MHz Shielded Cable
- Four Twisted Data Pairs
- Polyurethane Outer Jacket
- Internal Cat6A RJ45 Connector
- Neutrik etherCON® Housing

Part Number: **X - CN423C6ATFS - (length) - NE86A**
Description: Neutrik etherCON Cat6A 10Gb/s Cable Assemblies
Options: **Length:** Any up to 328'

Components

Cable Type	Clark CN423C6ATFS - Shielded 23AWG Cat6A 10Gb/s 500MHz Network Cable	Overall Jacket: Polyurethane
Connector Type	Neutrik etherCON Cat6A 10-Gigabit Connectors	Connector Finish: Black

Performance Characteristics

DCR	DCR Unbalance	Characteristic Impedance	Capacitance	Operating Temperature	Weight	Agency Listing
9.38 Ω/100m	3%	100Ω (+/- 15) 1 - 100 MHz 100Ω (+/- 20) 101 - 250 MHz 100Ω (+/- 25) 251 - 500 MHz	5.6 nF/100m (mutual) 330 pF/100m (pair-to-pair ground unbalanced)	-20˚C to 75˚C	55 lbs/Mft	TIA/EIA 568.C.2 - CAT6A

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100	200	300	400	500
Insertion Loss	max. dB/100m	2.1	3.8	5.3	5.9	7.5	8.4	9.4	10.5	15.0	19.1	27.6	34.3	40.1	45.3
Return Loss	min. dB/100m	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.0	16.8	15.9	15.2
NEXT	min. dB/100m	74.3	65.3	60.8	59.3	56.2	54.8	53.3	51.9	47.4	44.3	39.8	37.1	35.3	33.8
PS-NEXT	min. dB/100m	72.3	63.3	58.8	57.3	54.2	52.8	51.3	49.9	45.4	42.3	37.8	35.1	33.1	31.8
ELFEXT	min. dB/100m	67.8	55.8	49.7	47.8	43.7	41.8	39.8	37.9	31.9	27.8	21.8	18.3	15.8	13.8
PS-ELFEXT	min. dB/100m	64.8	52.8	46.7	44.8	40.7	38.8	36.8	34.9	28.9	24.8	18.8	15.3	12.8	10.8
DELAY	ns/100m	570	552	547	545	543	542	541	540	539	538	537	536	536	536

See CN423C6ATFS cable specifications for additional information and performance characteristics.

Circular Ruggedized Cat5E Assemblies

RJ45 Network Cable Assemblies

- Heavy Duty Tactical Cable
- Cat5E 100MHz Bandwidth
- Gigabit Networking
- Four Twisted Data Pairs
- Internal RJ45 Cat5E Connector
- Dust Caps with Lanyards
- Mating Twist Lock Connection

Part Number: **X - RCN- (length)**
Description: Ruggedized Circular Cat5E Cable Assembly
Options: **Length:** Any up to 164'

Components

Cable Type	Clark CN424C5TF 4 Twisted-Pairs Unshielded 24AWG (7x32) Stranded Tinned Copper .228" OD	Overall Jacket: Black Polyurethane
Connector Type	Circular Duplex Cat5E Connector with Integrated Dust Caps and Lanyards (dust caps not pictured)	Connector Finish: Black Plastic

Performance Characteristics

DCR	Characteristic Impedance	Skew	Capacitance	Operating Temperature
26.0 Ω/100m	100Ω (+/- 15)	25 ms/100m (max.)	13.5 pF/ft (mutual)	-40˚C to 75˚C

Frequency (MHz)		1	4	8	10	16	20	25	31.25	62.5	100
Insertion Loss	max. dB /100m	3.6	6.4	9.0	10.0	13.2	14.7	16.3	18.3	26.4	34.3
Return Loss	min. dB/100m	20.0	23.0	24.5	25.0	25.0	25.0	24.2	23.3	20.7	19.0
NEXT	min. dB/100m	65.3	56.3	51.8	50.3	47.3	45.8	44.3	42.9	38.4	35.3
PS-NEXT	min. dB/100m	62.3	53.3	48.8	47.3	44.3	42.8	41.3	39.9	35.4	32.3
ELFEXT	min. dB/100m	63.8	51.7	45.7	43.8	39.7	37.7	35.8	33.9	27.8	23.8
PS-ELFEXT	min. dB/100m	60.8	48.7	42.7	40.8	36.7	34.7	32.8	30.9	24.8	20.8

See CN424C5TF cable specifications for additional information and performance characteristics.

Tactical Cat5E Assemblies

Ruggedized RJ45 Network Cables

- Heavy Duty Tactical Cable
- Cat5E 100MHz Bandwidth
- Gigabit Networking
- Four Twisted Data Pairs
- RJ45 Cat5E Connector with Boot
- Shielded or Unshielded Cable

Part Number: **X - CN(type) - (length)**
Description: Tactical Cat5E Cable Assemblies
Options: **Type:** 424C5TF = unshielded, 426C5TFS = shielded
Length: Any up to 230' (CN424C5TF) or 262' (CN426C5TFS)

Components

Cable Type	Clark CN424C5TF or CN426TFS CN424C5TF - 24AWG Stranded, Unshielded Tactical Cat5E CN426C5TFS - 26AWG Stranded, Shielded Tactical Cat5E	Overall Jacket: Black Polyurethane
Connector Type	Cat5E RJ45 Connector with Boot	Connector Finish: Clear

Performance Characteristics

DCR	Maximum Distance	Characteristic Impedance	Skew	Capacitance	Operating Temperature
26.0 Ω/100m (24AWG Stranded CN424C5TF) 42.6 Ω/100m (26AWG Stranded CN426C5TFS)	CN424C5TF - 24AWG: 70m CN426C5TFS - 26AWG Shielded: 80m	100Ω (+/- 15)	25 ms/100m (max.)	13.5 pF/ft (mutual)	-40˚C to 75˚C

See CN424C5TF and CN426TFS cable specifications for additional information and performance characteristics.

powerCON 20® Cable Assembly

20A/250v AC Power Staging Cables

- Locking 20A/250V AC Connector
- Ergonomic Design
- Latch for Easy Disengaging
- Chuck Style Strain Relief
- (UL) C(UL) Recognized Components
- VDE Certified, SEV Approved
- 12AWG-3C Portable Cable

Part Number: **X-PWC-12/3-(length)-NAC**
Description: 20A/250v powerCON Cable Assembly
Options: **Length:** Given in Feet

Components

Cable Type	12AWG 3 Conductor, Stranded Power Cable (Oil, Chemical, Ozone, Sunlight, and Water Resistant)	Overall Jacket: Black
Connector Type	(1) NAC3FCA and (1) NAC3FCB	Connector Finish: Blue and Grey & Blue

Performance Characteristics

DC Resistance
12 AWG Conductors: 1.7 Ω/Mft

Neutrik and powerCON is a registered trademarks of Neutrik AG

powerCON 32® Cable Assembly

32A/250v AC Power Staging Cables

- Locking 32A/250V AC Connector
- Premating Contact for Earth
- Latch for Easy Disengaging
- Chuck Style Strain Relief
- VDE, UL, cUL and JET Approved
- Ambient Temperatures up to 35°C
- 10AWG-3C Portable Cable

Part Number: **X-PWC-10/3-(length)-NAC-HC**
Description: 32A/250v powerCON Cable Assembly
Options: **Length:** Given in Feet

Components

Cable Type	10AWG 3 Conductor, Stranded Power Cable (Oil, Chemical, Ozone, Sunlight, and Water Resistant)	Overall Jacket: Black
Connector Type	NAC3FC-HC	Connector Finish: Black

Performance Characteristics

DC Resistance
10 AWG Conductors: 1.1 Ω/Mft

powerCON True1® Cable Assembly

20A/250v AC Breaking-Under-Load Capable Cables

- Locking 20A/250V AC Connector
- True Mains Connector
- Latch for Easy Disengaging
- Chuck Style Strain Relief
- UL Recognized Components
- ENEC Certified
- 12AWG-3C Portable Cable

Part Number: **X-PWC-12/3-(length)-NAC-T1**
Description: 20A/250v powerCON Breaking-Under-Load Assembly
Options: **Length:** Given in Feet

Components

Cable Type	12AWG 3 Conductor, Stranded Power Cable (Oil, Chemical, Ozone, Sunlight, and Water Resistant)	Overall Jacket: Black
Connector Type	(1) NAC3FX-W and (1) NAC3MX-W	Connector Finish: Balck & Yellow

Performance Characteristics

DC Resistance
12 AWG Conductors: 1.7 Ω/Mft

Edison Connector Power Assemblies

Ruggedized Two-Pole Three-Wire Cable

- Three Conductors
- 15A/125V Rated
- NEMA 5-15 Connector
- Extremely Rugged
- Male to Female
- Black TPE Cable Jacket
- 10, 12, 14,or 16 AWG

Part Number: **X-PWC-(guage) / (number of conductors)-(length)-SPX**
Description: Ruggedized Two-Pole Three-Wire Edison Power Cable
Options:
Guage: 10AWG, 12AWG, 14AWG, 16AWG
Number of Conductors: 3
Length: Given in Feet

Components

Cable Type	10AWG - 3C, 12AWG-3C, 14AWG-3C (Oil, Chemical, Ozone, Sunlight, and Water Resistant)	Overall Jacket: Black TPE
Connector Type	(1) 3C Edison Male (1) 3C Edison Female	Connector Finish: Black Nylon

Performance Characteristics

DC Resistance	Operating Temperature
10 AWG Conductors: 0.98 Ω/Mft 12 AWG Conductors: 1.6 Ω/Mft 14 AWG Conductors: 2.6 Ω/Mft 16 AWG Conductors: 4.1 Ω/Mft	-40˚C to 90˚C

Stage-Pin Power Assemblies

Three-Conductor USITT Type for Stage and Theatrical Lighting

- Three Conductors
- 20A/125V or 15A/250V
- Extremely Rugged
- USITT Pin Configuration
- Male to Female Connectors
- Black TPE Cable Jacket
- 12AWG-3C Portable Cable

Part Number: **X-PWC-12/3-(length)-SP20MF**
Description: Three Conductor USITT Type Stage-Pin Power Cable
Options: **Length:** Given in Feet

Components

Cable Type	12AWG - 3C Type Power Cable (Oil, Chemical, Ozone, Sunlight, and Water Resistant)	Overall Jacket: Black TPE
Connector Type	(1) 3C Male Stage-Pin (1) 3C Female Stage-Pin	Connector Finish: Black Phenolic

Performance Characteristics

DC Resistance	Operating Temperature
12 AWG Conductors: 1.6 Ω/Mft	-40˚C to 90˚C

Power Adapter Assemblies

Edison, Stage-Pin, Twist-Lock or Neutrik powerCON

- Three Conductors
- Adapts Between Formats
- Extremely Rugged
- Black TPE Cable Jacket
- Multiple Connector Options
- 10AWG, 12AWG, or 14AWG

Part Number: **X-PWC-(guage) / (number of conductors)-(length)-(connector side 1)-(connector side 2)**
Description: Edison, Stage-Pin, Twist-Lock or Neutrik powerCON Adapter Cables
Options:
Guage: 10AWG, 12AWG, 14AWG
Number of Conductors: 3
Length: Given in Feet
Connector Options:
EDF = Edison Female
EDM = Edison Male
NAC = Neutrik powerCON
SPF = Stage-Pin Female
SPM = Stage-Pin Male

Components

Cable Type	10AWG-3C, 12AWG-3C, or14AWG-3C (Oil, Chemical, Ozone, Sunlight, and Water Resistant)	Overall Jacket: Black TPE
Connector Type	(1) Male or Female Edison, Stage-Pin, Twist-Lock or In-Line Neutrik powerCON Connector (1) Female or Male Edison, Stage-Pin, Twist-Lock or In-Line Neutrik powerCON Connector	Connector Finish: Varies

Performance Characteristics

DC Resistance	Operating Temperature
10 AWG Conductors: 0.98 Ω/Mft 12 AWG Conductors: 1.6 Ω/Mft 14 AWG Conductors: 2.6 Ω/Mft	-40˚C to 90˚C

NEMA L21-30 Locking Power Assemblies

30AMP Four-Pole Five-Wire

- Five Conductors
- 30A/250V Rated
- NEMA L21-30 Connector
- Extremely Rugged
- Male to Female
- Black TPE Cable Jacket
- 8AWG or 10AWG Portable Cable

Part Number: **X-PWC-(guage) / (number of conductors)-(length)-L2130**
Description: NEMA L21-30 Four-Pole Five-Wire Locking Power Cable
Options:
Guage: 8AWG or 10AWG
Number of Conductors: 5
Length: Given in Feet

Components

Cable Type	8AWG - 5C or 10AWG - 5C SOOW Power Cable (Oil, Chemical, Ozone, Sunlight, and Water Resistant)	Overall Jacket: Black
Connector Type	(1) NEMA L21-30 Male and (1) NEMA L21-30 Female	Connector Finish: Black Nylon

Performance Characteristics

DC Resistance	Operating Temperature
8 AWG Conductors: 0.72 Ω/Mft 10 AWG Conductors: 0.98 Ω/Mft	-40˚C to 90˚C

Socapex Multi-Pin Power Assemblies

Ruggedized Circular Power Connector for Lighting and Staging

- 19 Electrical Contacts
- Locking Circular Ring
- Extremely Rugged
- Aluminum Shell
- IP-67 Watertight (when mated)
- 14 or 19 Conductors
- 12AWG or 14AWG Conductors

Part Number: **X-PWC-(guage) / (number of conductors)-(length)-SPX**
Description: Socapex Multi-Pin Lighting and Staging Power Cable Assembly
Options:
Guage: 12AWG or 14AWG
Number of Conductors: 14 or 19
Length: Given in Feet

Components

Cable Type	12AWG - 14 C, 12AWG - 19C, 14AWG-14C, or 14AWG-19C Power Cable (Ozone, Sunlight, and Water Resistant)	Overall Jacket: Black
Connector Type	(1) SSX 19-Pin Male and (1) SSX 19-Pin Female	Connector Finish: Hard Anodized Black Aluminum

Performance Characteristics

DC Resistance
12 AWG Conductors: 1.7 Ω/Mft 14 AWG Conductors: 2.7 Ω/Mft

Socapex Multi-Pin Power Breakout/Breakin

Ruggedized Circular 19-Pin to Three Conductor Connectors

- 19 Electrical Contacts
- Locking Circular Ring
- Extremely Rugged
- 12AWG Conductors
- Six Breakout/Breakin Elements
- Black TPE Cable Jacket
- Three-Pin Connector Options

Part Number: **X-SPX(gender) - BO - (connector breakout type)**
Description: Socapex Multi-Pin Power Breakout/Breakin Assembly
Options:

Guage: 12AWG

Number of Conductors: Six 3C Cable Elements
Length: Given in Feet
Connector Breakout Type:
EDF = Edison Female
EDM = Edison Male
NACI = Neutrik powerCON - In
NACO = Neutrik powerCON - Out
SPF = Stage-Pin Female
SPM = Stage-Pin Male

Components

Cable Type	12AWG - 3C Type Power Cable (Oil, Chemical, Ozone, Sunlight, and Water Resistant)	Overall Jacket: Black TPE
Connector Type	(1) SSX 19-Pin Male to (6) Female Edison, Stage-Pin, Twist-Lock, or Neutrik powerCON Connectors -or- (1) SSX 19-Pin Female to (6) Male Edison, Stage-Pin, Twist-Lock, or Neutrik powerCON Connectors	Connector Finish: Varies

Performance Characteristics

DC Resistance	Operating Temperature
12 AWG Conductors: 1.6 Ω/Mft	-40˚C to 90˚C

Wire Gauge Size Appendix

Gauge	Stranding	Diameter (inches)	Circular Area (ML)
40	solid	.003	9.61
39	solid	.004	12.2
38	solid	.004	15.72
37	solid	.005	19.83
36	solid	.005	25.00
36	7x44	.006	28.00
35	solid	.006	31.52
34	solid	.006	39.75
34	7x42	.007	43.75
33	solid	.007	50.13
32	solid	.008	63.21
32	7x40	.008	67.27
32	19x44	.009	76.00
31	solid	.009	79.70
30	solid	.010	100.50
30	7x38	.012	112.00
30	19x42	.012	118.75
29	solid	.011	126.70
28	solid	.013	159.80
28	7x36	.015	141.75
28	19x40	.016	182.59
27	solid	.014	201.50
27	7x35	.018	219.52
26	solid	.016	253.00
26	19x38	.020	304.00
26	7x34	.019	277.83

Gauge	Stranding	Diameter (inches)	Circular Area (ML)
25	solid	.018	320.40
25	7x33	.021	343.00
24	solid	.020	404.00
24	7x32	.024	448.00
24	10x34	.023	396.90
24	19x36	.024	475.00
24	41x40	.023	384.4
23	solid	.023	511.5
22	solid	.025	640.4
22	7x30	.030	700.00
22	19x34	.031	754.11
22	26x36	.030	650.00
21	solid	.029	812.10
20	solid	.032	1020.0
20	7x28	.038	1111.0
20	10x30	.035	1000.0
20	19x32	.037	1216.0
20	26x34	.036	1031.9
20	41x36	.036	1025.0
19	solid	.040	1200.0
18	solid	.040	1620.0
18	7x26	.048	1759.6
18	16x30	.047	1600.0
18	19x30	.049	1900.0
18	41x34	.047	1627.3
18	65x36	.047	1625.0

Gauge	Stranding	Diameter (inches)	Circular Area (ML)
17	solid	.045	2050.0
16	solid	.051	2583.0
16	7x24	.060	2828.0
16	65x34	.059	2579.9
16	26x30	.059	2600.0
16	19x29	.058	2426.3
16	105x36	.059	2625.0
15	solid	.057	3260.0
14	solid	.064	4107.0
14	7x22	.073	4480.0
14	19x27	.073	3830.4
14	41x30	.073	4100.0
14	105x34	.073	4167.5
13	solid	.072	5178.0
12	solid	.081	6530.0
12	7x20	.096	7168.0
12	19x25	.093	6087.6
12	65x30	.095	6500.0
12	165x34	.095	6548.9
11	solid	.091	8234.0
10	solid	.102	10380.0
10	37x26	.115	9353.6
10	49x27	.116	9878.4
10	105x30	.116	10530.0
8	49x25	.147	15699.9
8	133x29	.147	16984.1

Part Number Index

Clark Wire & Cable
408 Washington Blvd.
Mundelein, IL 60060
800-222-5348 toll free
847-949-9944 local
847-949-9595 fax

www.CLARKWIRE.com

Catalog #CMC-1505