

Cable excellence engineered through quality

EventSeries™ cables for sound and light distribution have been developed over two decades using state of the art materials and expertise.

By working in partnership with professionals in the industry in conjunction with our manufacturing facilities we have developed a range of cables which we know lasts up to the rigours of the most demanding installations and the challenges of on tour use.

The EventSeries™ range meet most of the industry applications, with continuing commitment to research and development we can be sure that the best materials for the applications are used, providing innovative solutions to old and new problems.



Descriptions are correct at time of publication, however these may be reviewed at any time and are subject to change without notice. E&OE (Errors and Omissions Excepted) which means that whilst every effort has been made to ensure that the information contained within this publication is accurate, specifications may vary or be subject to change at Belcom's discretion. As such, this publication should be used as a guide only. Exact details can be confirmed at point of enquiry.



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MultiPair Analogue/Digital Audio Cables
MultiPair Analogue Audio Cables 110Ω AES/EBU MPAI
MultiPair Analogue / Digital Audio Cables 110Ω AES/EBU 110-16**
Super Flexible MultiPair LSZH SHF-2 FireFighter™ Analogue/Digital Audio Cables
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Speaker Cables
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Professional Speaker Cables FHP
Professional Speaker Cables LSZH FireFighter™ ZHP
Transparent Speaker Cables Flat Twin Figure 8 LC OFC
. Commercial Grade Speaker Cables Flat Twin Figure 8 OFC
Camera Cables
Triaxial Camera Cable
Fibre Hybrid HDTV Camera Cable — SMPTE 311M 806311M
DMY Data & Scroller Cable 32-35

Video Cables
75 Ω Low Loss Video Coax Cables Broadcast 2 & 3
HD600 Serial Digital Video Cable 75 Ω LSZH FireFighter ^{M}
HD720 Serial Digital Video Cable 75 Ω LSZH FireFighter™
Belden 1694A ANH FRNC Precision Video Coax
Belden 1505A RG59/U Type Precision Video Coax
Belden 1505F RG59/U Type Precision Video Coax
Miniature 2core 75 Ω S-VHS Coaxial Cable
Field Deployable UpJacketed Ethernet Cable
Lighting Control Cable 52
FHL Lighting Control Cable
ZHL Lighting Control Cable LSZH FireFighter™
FHL7075 Thin Wall 7core Lighting Control Cable
75 Ω Miniature Coaxial Cable RG179













Tight Buffered Fibre Optic Cable HDTV LSZH57







110Series Single pair Mini Digital Wiring Installation Cable



The 110Series is the digital version of our original analogue cable FST/SPAI and is ideal for fixed wiring of digital equipment and patch boards for professional audio applications. The characteristic impedance of 110ohm makes it suitable for digital sound transmissions according to the AES3 standards and also DMX signals.

This series is available with a PVC sheath or a LSZH sheath . The LSZH version is available in standard black or a selection of other colours . This single pair cable is used to build the muticore versions 110-16**, 110-i46** and 110-46**.

Characteristics:

- PVC or LSZH FireFighter™ Sheath
- 110 Ω Characteristic Impedance
- Suitable for digital sound transmissions according to the AES3 standards
- Analogue or Digital
- Oxygen Free Tinned Copper
- EasyStrip Bonded Alu. Foil

Digital Wining Installation Gable EventSeries "SPDAIFF AES/EBU Single Pair



110-1601-01 Digital Wiring Installation Cable AES/EBU



Application	Electrical Characteristics		
The 110-1601-01 is ideal for fixed wiring of digital equipment and patch boards for professional audio applications. The characteristic impedance of 110 Ohm makes it suitable for digital sound transmissions according to the AES3 standards and also DMX signals.	Nom. Capacitance	47 pF/m	
	Impedance	110 Ω	
	Conductor resistance	< 85 Ω/km	
	Insulation resistance	> 100 GΩ/km	
		1 MHz	2.3 dB/100m
	Attenuation	3 MHz	3.9 dB/100m
		10 MHz	6.9 dB/100m

Miltronic Part Number	Part Number	Colour
83067862	110-1601-01	Black



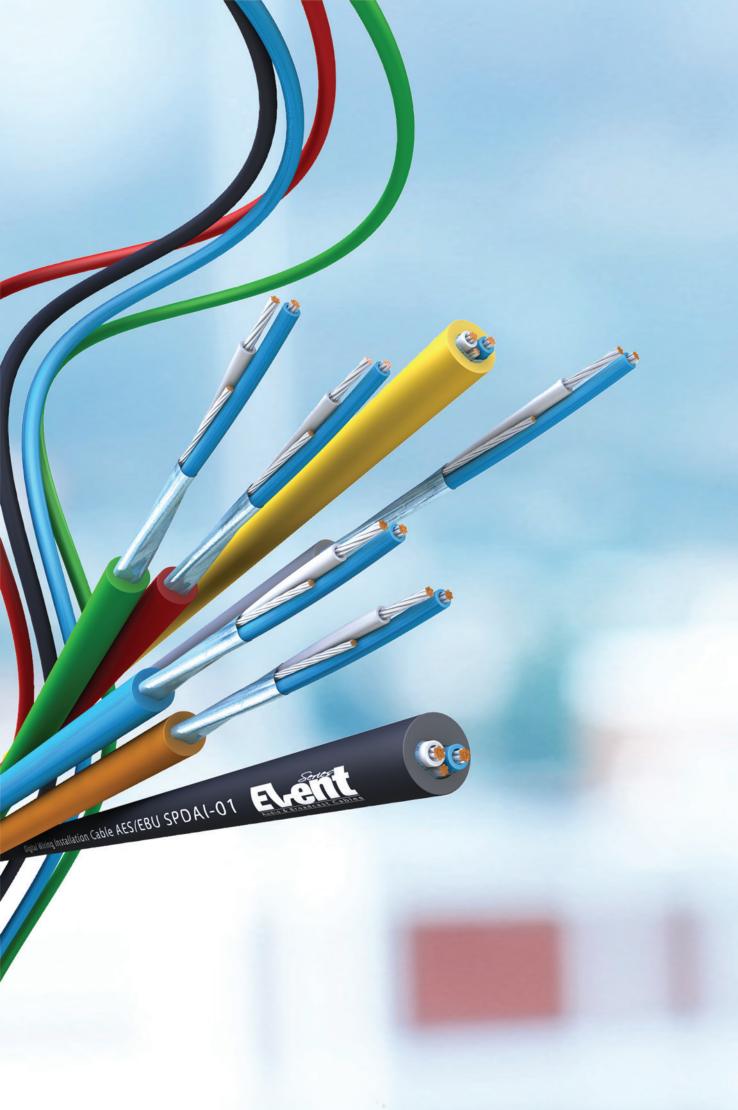
SPDAIFF Digital Wiring Installation Cable AES/EBU LSZH FireFighter™



Application	Electrical Characteristics		
The SPDAIFF is the LSZH FireFighter™ digital version of the SPAI	Nom. Capacitance	47 pF/m	
and is ideal for fixed wiring of digital equipment and patch boards	Impedance	110 Ω	
for professional audio applications. The characteristic impedance of 110 Ohm makes it suitable for digital sound transmissions according to the AES3 standards and also DMX signals. The overall	Conductor resistance	< 85 Ω/km	
	Insulation resistance	> 100 GΩ/km	
sheath is a Low Smoke Zero Halogen material. The finished		1 MHz	2.3 dB/100m
product is ideal for use in public buildings where LSZH cables are	Attenuation	3 MHz	3.9 dB/100m
specified. It can be used for analogue or digital applications.		10 MHz	6.9 dR/100m

Miltronic Number	Part Number	Colour
83067863	110-4601-01	Black
83067864	110-4601-02	Blue
83067865	110-4601-03	Green
83067866	110-4601-04	Red
83067867	110-4601-05	Grey
83067868	110-4601-06	Yellow
83067869	110-4601-12	Brown

6.9 dB/100m





MultiPair Analogue/Digital Audio Cables



Event[™] 110Series Pre-Jacketed digital/ analogue audio multicore cables are designed with the Professional user in mind . Each of the cable types are designed to deliver real 110Ω AES/EBU performance. The balanced performance coupled with Oxygen Free Tinned Copper and our EasyStrip bonded aluminium foil on each component jacket provides a reliable and fast termination solution.

The three types available in this series cover every possible installation environment weather it be temporary, fixed installation or even a version that's suitable for both.

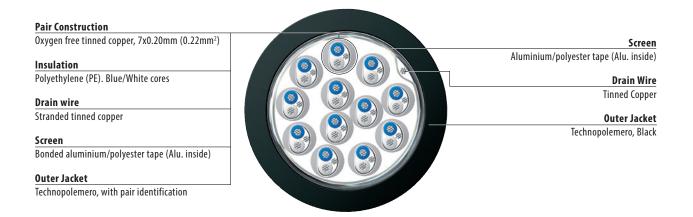
Characteristics

- 110 Ω AES/EBU Performance
- Analogue or Digital
- Oxygen Free Tinned Copper
- EasyStrip Bonded Alu. Foil





MultiPair Analogue Audio Cables MPAI



Application

MPAI Pre-Jacketed analogue audio multicore individually foil shielded and overall foil shield. The overall sheath is a special compound mix which is soft and pliable but very robust making the finished cable ideal for use in stage box systems or fixed installations.

Electrical Characteristics			
Max. working voltage	250 V		
Test voltage	1500 Vac/1min		
Nom. Mutual Capacitance	80 pF/m		
Nom. Attenuation @ 10 MHz	14.9 dB/100m		
Conductor resistance	< 88 Ω/km		
Insulation resistance	$> 500~\text{M}\Omega/\text{km}$		
Mechanical & Thermal Characteristics			
Min Danding radius	5 x Ø (fixed)		
Min. Bending radius	10 x Ø (mobile		
Working Temperature	-30°C up to +85°C		

Miltronic Part Number	Part Number	No. Of Pairs	Ø - Outer Jacket (mm)	Weight (kg/km
-	MPAI2	2	8.1	92
-	MPAI4	4	9.5	145
-	MPAI6	6	11.3	175
-	MPAI8	8	12.2	207
-	MPAI10	10	14.8	275
-	MPAI12	12	15.3	308
-	MPAI16	16	16.8	388
-	MPAI20	20	19.3	505
-	MPAI24	24	21.4	577
-	MPAI32	32	23.33	732



MultiPair Analogue / Digital Audio Cables 110Ω AES/EBU 110-16**

Pair Construction

Oxygen free tinned copper, 7x0.20mm (0.22mm²)

Insulation

Low loss Polyolefin Alloy. Blue/White cores

Drain wire

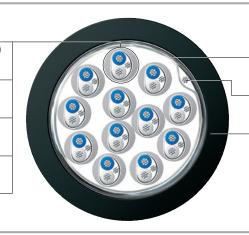
Oxygen free Stranded tinned copper (26awg)

Screen

Bonded aluminium/polyester tape (Alu. inside)

Outer Jacket

Technopolemero, with pair identification



Screen

Aluminium/polyester tape (Alu. inside)

Drain Wire

Oxygen free Stranded tinned copper (26awg)

Outer Jacket

Technopolemero, Black

Application

Event™110Series Pre-Jacketed digital/analogue audio multicore, individualy foil shielded and overall foil shield. The individual elements of this multicore has the same low loss characteristics as our SPDAI single pair product which delivers real 110Ω AES/EBU performance. The balanced performance coupled with Oxygen Free Tinned Copper conductors and our EasyStrip bonded aluminium foil on each component jacket provides a reliable and fast termination solution. The overall sheath is a special compound mix which is soft and pliable but very robust making the finished cable ideal for use in stagebox systems or fixed installation

Electrical Characteristics	
Max. working voltage	250 V
Test voltage	1500 Vac/1min
Characteristic Impedance	110 Ω
Nom. Mutual Capacitance	48 pF/m
Nom. Attenuation @ 10 MHz	14.9 dB/100m
Conductor resistance	< 88 Ω/km
Insulation resistance	> 500 MΩ/km
Thermal Characteristics	
Working Temperature	-30°C up to +85°C

Miltronic Part Number	Part Number	No. Of Pairs	Ø - Outer Jacket (mm)	Weight (kg/km
83067870	110-1602	2	10.5	92
83067871	110-1604	4	10.8	145
83067872	110-1608	8	14.5	207
83067873	110-1612	12	17.5	308
83067874	110-1616	16	19.2	388
83067875	110-1624	24	24	577
83067876	110-1632	32	23.3	732



Super Flexible MultiPair LSZH SHF-2 FireFighter™ Analogue/Digital Audio Cables 110Ω AES/EBU 110-46**

Pair Construction

Oxygen free tinned copper, 7x0.20mm (0.22mm²)

nsulation

Low loss Polyolefin Alloy. Blue/White cores

Drain wire

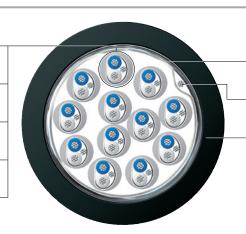
Oxygen free Stranded tinned copper (26awg)

Screen

Bonded aluminium/polyester tape (Alu. inside)

Outer Jacket

LSZH FireFighter™, with pair identification



Screen

Aluminium/polyester tape (Alu. inside)

Drain Wire

Oxygen free Stranded tinned copper (26awg)

Outer Jacket

LSZH FireFighter™ SHF-2, Black

Application

Event[™]110Series Pre-Jacketed digital/analogue audio multicore, individualy foil shielded and overall foil shield. The individual elements of this multicore has the same low loss characteristics as our SPDAIFF single pair product which delivers real 110Ω AES/EBU performance. The balanced performance coupled with Oxygen Free Tinned Copper conductors and our EasyStrip bonded aluminium foil on each component jacket provides a reliable and fast termination solution. The overall sheath is a special LSZH compound mix which is soft and pliable, I'ts just as pliable as our standard cable so it can be used for fixed installation or for touring applications

Electrical Characteristics	
Max. working voltage	250 V
Test voltage	1500 Vac/1min
Characteristic Impedance	110 Ω
Nom. Mutual Capacitance	48 pF/m
Nom. Attenuation @ 10 MHz	14.9 dB/100m
Conductor resistance	< 88 Ω/km
Insulation resistance	> 500 MΩ/km
Thermal Characteristics	
Working Temperature	-30°C up to +85°C

Miltronic Part Number	Part Number	No. Of Pairs	Ø - Outer Jacket (mm)	Weight (kg/km
83067884	110-4602	2	9.1	88
83067885	110-4604	4	10.7	118
83067886	110-4608	8	14.0	204
83067887	110-4612	12	17.3	295
83067888	110-4616	16	19.3	376
83067889	110-4624	24	23.1	530
83067890	110-4632	32	25.8	696



Install Grade MultiPair LSZH SHF-1 FireFighter™ Analogue/Digital Audio Cables 110Ω AES/EBU 110-i46**

Pair Construction

Oxygen free tinned copper, 7x0.20mm (0.22mm²)

Insulation

Low loss Polyolefin Alloy. Blue/White cores

Drain wire

Oxygen free Stranded tinned copper (26awg)

Screen

Bonded aluminium/polyester tape (Alu. inside)

Outer Jacket

LSZH FireFighter™, with pair identification



Screen

Aluminium/polyester tape (Alu. inside)

Drain Wire

Oxygen free Stranded tinned copper (26awg)

Outer Jacket

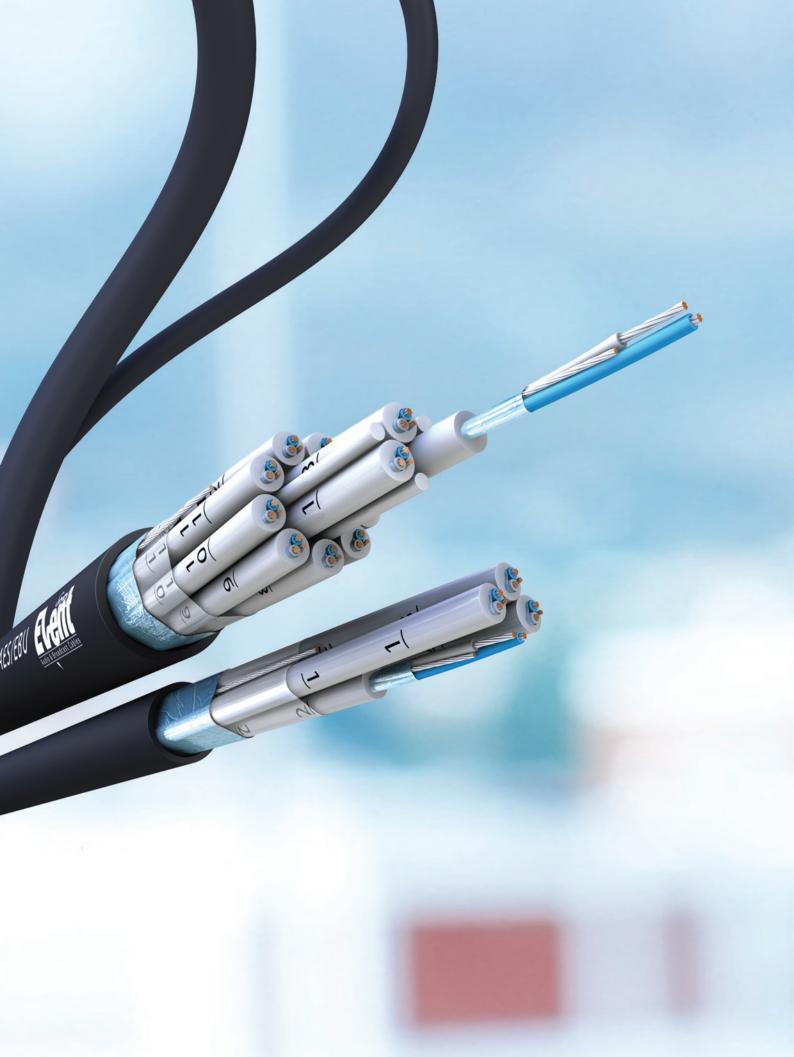
LSZH FireFighter™ SHF-1, Black

Application

Event™110Series Pre-Jacketed digital/analogue audio multicore, individualy foil shielded and overall foil shield. The individual elements of this multicore has the same low loss characteristics as our SPDAIFF single pair product which delivers real 110Ω AES/EBU performance. The balanced performance coupled with Oxygen Free Tinned Copper conductors and our EasyStrip bonded aluminium foil on each component jacket provides a reliable and fast termination solution. The overall sheath is an LSZH compound which has the same performance as the superflexible version but are stiffer in nature so are only recommended for fixed installation.

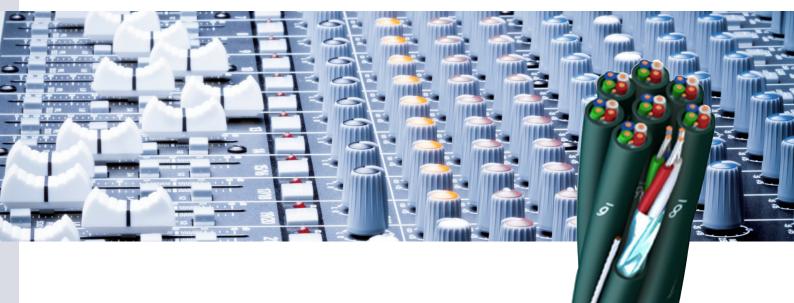
Electrical Characteristics	
Max. working voltage	250 V
Test voltage	1500 Vac/1min
Characteristic Impedance	110 Ω
Nom. Mutual Capacitance	48 pF/m
Nom. Attenuation @ 10 MHz	14.9 dB/100m
Conductor resistance	< 88 Ω/km
Insulation resistance	> 500 MΩ/km
Thermal Characteristics	
Working Temperature	-30°C up to +85°C

Miltronic Part Number	Part Number	No. Of Pairs	Ø - Outer Jacket (mm)	Weight (kg/km
83067877	110-i4602	2	9.1	92
83067878	110-i4604	4	10.7	145
83067879	110-i4608	8	14.0	207
83067880	110-i4612	12	17.1	308
83067881	110-i4616	16	19.1	388
83067882	110-i4624	24	25.6	577
83067883	110-i4632	32	26.2	732





Quad / MultiQuad Audio Cables LSZHPUR



Event 220Series is a Pre-Jacketed starquad audio multicore with individually foil sreened quads and overall foil screen. Each quad jacket is made of a soft LSZH material and the overall sheath is a leading edge LSZH Polyurethane (PUR) material. In the case of the single quad the sheath is the LSZH PUR.

The Event220Series is primarily designed as an installation cable, due to the LSZH materials is ideal for use in public buildings. The starquad arrangement helps to cancel out interference and external noise when used in noisy areas.

Since the outer sheath is made of PUR the product is extremely robust but flexible so it can be used in the harshest of environments , outside broadcast or even trailing along the ground.

Characteristics

- LSZH PUR
- Oxygen Free Tinned Copper
- EasyStrip Bonded Alu. Foil





Quad / MultiQuad Audio Cables LSZHPUR

Quad Construction

Oxygen free tinned copper, 7x0.20mm (0.22mm²)

nsulation

Low loss Polyolefin Alloy. BE/GN/RD/WE cores

Drain wire

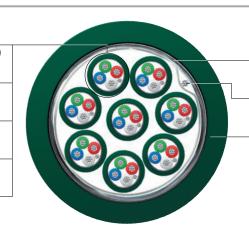
Oxygen free Stranded tinned copper (26awg)

Screen

Bonded aluminium/polyester tape (Alu. inside)

Outer Jacket

LSZH FireFighter™ PUR, with pair identification



Screen

Aluminium/polyester tape (Alu. inside)

Drain Wire

Oxygen free Stranded tinned copper (26awg)

Outer Jacket

LSZH FireFighter™PUR Compound, Green

Application

Event™ 220Series is a Pre-Jacketed starquad audio multicore with individually foil shielded quads and overall foil shield. It is designed for the installation market but is still very soft and pliable. The Individual quad jacket and outer jacket is made of a special Low Smoke Zero Halogen material. The outer sheath is made of a special LSZH PUR. The single quad has the special PUR sheath.

Electrical Characteristics	
Max. working voltage	250 V
Test voltage	1500 Vac/1min
Conductor resistance	< 88 Ω/km
Insulation resistance	> 500 MΩ/km
Thermal Characteristics	
Working Temperature	-30°C up to +85°C

Miltronic Part Number	Part Number	No. Of Quads	Ø - Outer Jacket (mm)	Weight (kg/km
83067891	220-6601	1	3.7	21
83067892	220-6604	4	11.1	135
83067893	220-6608	8	14.4	244

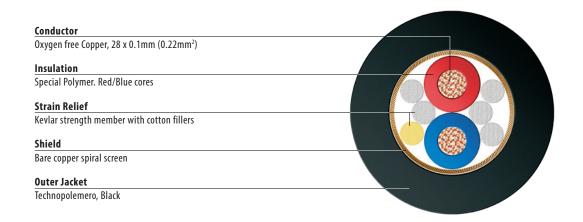


Microphone Cables





OFC Microphone Cable MLX2



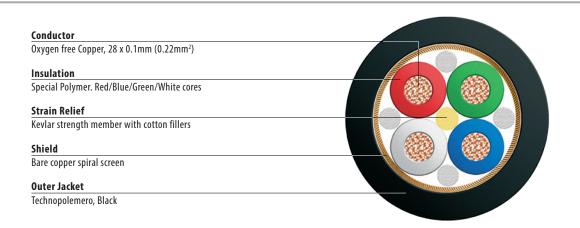
	Application	Electrical Characteristic
	MLX2 is a professional grade oxygen free microphone cable. It has a LAP	Nom. Capacitance (cond./co
	screen and an enlarged sheath which is made of a very soft and flexible compound mix with matt finish. The cable also has a kevlar strength member adding to the cables durability.	Nom. Capacitance (cond./co
		Conductor resistance
	adding to the capies durability.	Insulation resistance

Electrical Characteristics	
Nom. Capacitance (cond./cond.)	90 pF/m
Nom. Capacitance (cond./cond./shield)	180 pF/m
Conductor resistance	85 Ω/km
Insulation resistance	100 MΩ*km
Operating voltage	50/75 V AC/DC
Test voltage (at 50Hz eff. for 1min.)	> 1 kV

Miltronic Part Number	Part Number	Ø - Outer Jacket (mm)	Colour
83067850	MLX2-01	6.35	Black
83067851	MLX2-02	6.35	Blue
83067852	MLX2-03	6.35	Green
83067853	MLX2-04	6.35	Red
83067854	MLX2-05	6.35	Grey
83067855	MLX2-06	6.35	Yellow
83067856	MLX2-08	6.35	Orange —
83067857	MLX2-09	6.35	Violet



OFC Starquad Microphone Cable MLX4

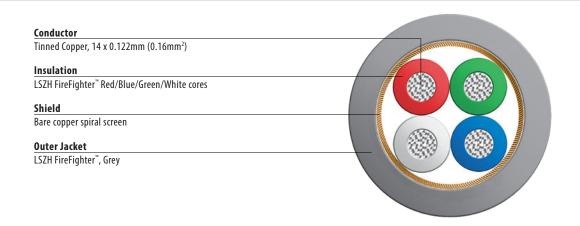


Application	Electrical Characteristics	
MLX4 is a professional grade oxygen free microphone cable. It	Nom. Capacitance (cond./cond.)	90 pF/m
has a LAP screen and an enlarged sheath which is made of a very	Nom. Capacitance (cond./cond./shield)	180 pF/m
soft and flexible compound mix with matt finish. For use in noisy areas since the starguad design cancels out interference and	Conductor resistance	85 Ω/km
external noise, so it's ideal for noisy areas. The cable also has a	Insulation resistance	20 MΩ*km
kevlar strength member adding to the cables durability.	Operating voltage	50/75 V AC/DC
	Test voltage (C-C at 50Hz eff. for 1min.)	> 1.2 kV
	Test voltage (C-S at 50Hz eff. for 1min.)	> 1 kV

Miltronic Part Number	Part Number	Ø - Outer Jacket (mm)	Colour
83067858	MLX4-01	6.75	Black
83067859	MLX4-02	6.75	Blue
83067860	MLX4-04	6.75	Red



OFC Starquad Microphone Cable ML4/1

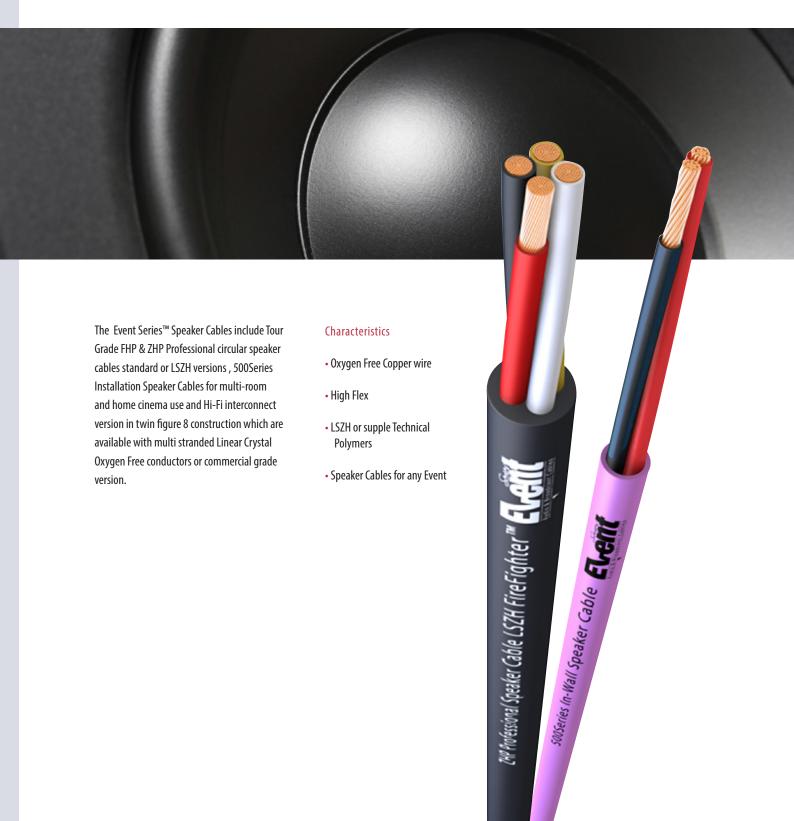


Application	Electrical Characteristics	
ML4/1 is a fixed installation starquad microphone cable. The Low	Nom. Capacitance Unbalance	80 pF/m
Smoke Zero Halogen sheath makes it ideal for use in public build-	Nom. Capacitance (cond./cond.)	120 pF/m
ings where Low Smoke Zero Halogen is specified.	Conductor resistance	105 Ω/km

Miltronic Part Number	Part Number	Ø - Outer Jacket (mm)	Colour
83067861	ML4/1	4.7	Grey

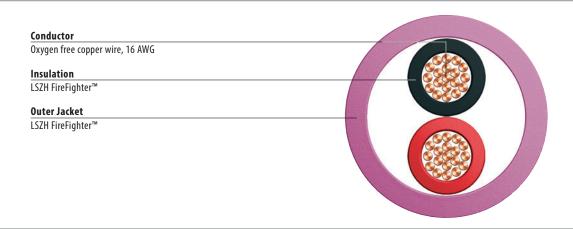


Speaker Cables





Installation Speaker Cables 500Series LSZH FireFighter™



Application
Our '500 Series' are high performance installation speaker cables
with the added bonus of an LSZH FireFighter™ rated outer sheath.
They are designed to deliver good levels of performance in most
multi-room and home cinema installations

Cable Construction	
Conductor	Oxygen free copper wire, 16 AWG
Insulation	LSZH FireFighter™
Core colours	2core - Red / Black
Core colours	4core - Red / Black / Green / White
Outer Jacket	LSZH FireFighter™

Miltronic Part Number	Part Number	No. Of Cores	Conductor Size (AWG)	Ø - Outer Jacket (mm)	Colour
83067928	5002C1644-07	2	16	6.0	Pink 3015
83067929	5004C1644-07	4	16	7.5	Pink 3015
-	5002C1444-07	2	14	7.2	Pink 3015
-	5004C1444-07	4	14	9.2	Pink 3015



Professional Speaker Cables FHP

Conductor
Stranded Oxygen Free Bare copper

Insulation
Technopolemero

2 core - Red / Black

4 core - Red / Black / Yellow / White

6 core - Red / Black / Yellow / White / Blue / Orange

8 core - Red / Black / Yellow / White / Blue / Orange / Grey / Green

Outer Jacket
Technopolemero, Black

Application
These are used for linking speakers. This range is available
from 1.5mmsq to 4.0mmsq making it suitable for long or short
distances.
Extra supple compounds used in the production of these cables
give them great flexibility and also have good mechanical resist-
ance

Electrical Characteristics		
	1.5mm ²	< 13.3 Ω/km
Conductor resistance	2.5mm ²	< 7.98 Ω/km
	4.0mm ²	< 4.95 Ω/km
Max. working voltage	50/75 V AC/DC	
Test voltage	> 2000 V	

Formation (cores x mm²)	Miltronic Part Number	Part Number	Stranding (mm)	Ø - Outer Jacket (mm)
		Twinaxial Speaker		
2 x 1.5mmsq	83067894	FHP215	30x0.25	6.25
2 x 2.5mmsq	83067895	FHP225	50x0.25	7.40
2 x 4.0mmsq	83067896	FHP240	54x0.30	9.10
		Multicore Speaker		
4 x 2.5mmsq	83067897	FHP425	50x0.25	10.25
4 x 4.0mmsq	83067898	FHP440	54x0.30	12.20
6 x 2.5mmsq	-	FHP625	50x0.25	13.00
8 x 2.5mmsq	83067899	FHP825	50x0.25	15.80



Professional Speaker Cables LSZH FireFighter™ ZHP

Conductor

Stranded Oxygen Free Bare copper

Insulation

Pyromeric Technopolemero

2 core - Red / Black

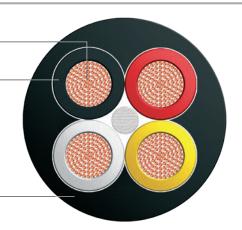
4 core - Red / Black / Yellow / White

6 core - Red / Black / Yellow / White / Blue / Orange

8 core - Red / Black / Yellow / White / Blue / Orange / Grey / Green

Outer Jacket

Pyromeric Technopolemero, Black



Application

This range of speaker cables are specially designed for fixed installation in public buildings where LSZH cables are specified. The use of extra supple compounds give them good flexibility and good mechanical resistance.

Flame retardant acc. to DIN VDE 0482 part 332-1-2/IEC 60332-1-2 Halogen Free acc. to DIN VDE 0472 part 815/IEC 60754-1 No corrosive gases acc. to DIN VDE 0472 part 813/IEC 60754-2

Electrical Characteristics				
Conductor resistance	1.5mm ²	< 13.3 Ω/km		
	2.5mm ²	< 7.98 Ω/km		
	4.0mm ²	< 4.95 Ω/km		
Insulation resistance	20 MΩ x km at 20	°C		
Max. working voltage	50/75 V AC/DC			
Test voltage	> 1 kV at 50Hz ef	f. for 1 min.		
Test voltage	> 2000 V			
Thermal Characteristics				
	static -20°C up to	static -20°C up to +80°C		
Temperature Range	operat5°C up to	operat5°C up to +80°C		

Formation (cores x mm²)	Miltronic Part Number	Part Number	Stranding (mm)	Ø - Outer Jacket (mm)
		Twinaxial Speaker		
2 x 1.5	83067900	ZHP215	30 x 0.25	6.25
2 x 2.5	83067902	ZHP225	50 x 0.25	7.40
2 x 4.0	83067903	ZHP240	56 x 0.31	9.10
2 x 6.0	83067904	ZHP260	84 x 0.31	11.00
		Multicore Speaker		
4 x 1.5	83067905	ZHP415	30 x 0.25	7.20
4 x 2.5	83067906	ZHP425	50 x 0.25	10.25
4 x 4.0	83067907	ZHP440	56 x 0.31	12.20
4 x 6.0	83067908	ZHP460	84 x 0.31	-
6 x 2.5	-	ZHP625	50 x 0.25	13.00
8 x 2.5	83067909	ZHP825	50 x 0.25	15.80



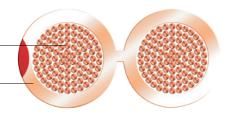
Transparent Speaker Cables Flat Twin Figure 8 LC OFC

Conductor

Stranded Oxygen Free Bare copper

Insulation / Outer Jacket

Polyvinylchloride (PVC), Transparent + Red polarity indicator



Application

Translucent extra flexible PVC speaker cable consists of very fine oxygen-free copper strands (OFC) resulting in a very high quality product. This construction method offers optimum flexibility.

Electrical Characteristics	
Current Rating	see table below
Conductor resistance	see table below
Insulation resistance	>100 MΩ x km
Max. working voltage	50/75 V AC/DC
Test voltage	> 2000 V
Thermal Characteristics	
T	static -30°C up to +70°C
Temperature Range	mobile -10°C up to +70°C

Formation (cores x mm²)	Miltronic Part Number	Part Number	Stranding (mm)	Ø - Outer Jacket (mm)	Current Rating (A) (max.)	Conductor Resistance (Ω/km)
2x0.75	83067910	40306075	96x0.1	2.5 x 5.0	6.0	23
2x1.0	83067911	40306100	126x0.1	3.4 x 6.8	10	18
2x1.5	83067912	40306150	189x0.1	4.5 x 7.0	15	13.3
2x2.5	83067913	40306250	315x0.1	5.5 x 11.5	25	7.98
2x4.0	83067914	40306400	511x0.1	6.0 x 12.7	40	4.95
2x6.0	83067915	40306600	777x0.1	6.1 x 12.5	60	3.5



Commercial Grade Speaker Cables Flat Twin Figure 8 OFC

Conductor

Stranded Oxygen Free Bare copper

Insulation / Outer Jacket

Polyvinylchloride (PVC), Black + Red polarity indicator



Conductor

Stranded Oxygen Free Bare copper



Application

Black or White PVC with polarising stripe, fine stranded conductor for extra flexibility.

Cable Construction	
Conductor	Stranded Oxygen Free Bare copper
No. Of Cores	2 (Figure 8)
Outer Jacket	Polyvinylchloride (PVC)
Outer Jacket Colour	see table below
Electrical Characteristics	
Current Rating	see table below
Conductor resistance	see table below
Thermal Characteristics	
Tompovatura Danga	static -30°C up to +70°C
Temperature Range	mobile -10°C up to +70°C

Miltronic Part Number	Part Number	Formation Cross Section (Stranding)	Ø - Outer Jacket (mm)	Current Rating (A) (max.)	Conductor Resistance (Ω/km)	Colour
83067916	4702-51	0.22mm ² (7/0.2mm)	1.3 x 3.0	1.0	84	grey with black polarity stripe
83067917	4702-110	0.22mm ² (7/0.2mm)	1.3 x 3.0	1.0	84	black with white polarity stripe
83067918	4702-101	0.22mm ² (7/0.2mm)	1.3 x 3.0	1.0	84	white with black polarity stripe
83067919	41302-51	0.40 mm ² (13/0.2mm)	2.0 x 4.3	2.5	41	grey with black polarity stripe
83067920	41302-101	0.40 mm ² (13/0.2mm)	2.0 x 4.3	2.5	41	white with black polarity stripe
83067921	41302-10	0.40 mm ² (13/0.2mm)	2.0 x 4.3	2.5	41	white with polarity rib
83067922	42602-51	0.81 mm ² (26/0.2mm)	2.5 x 5.0	6.0	23	grey with black polarity stripe
83067923	42602-101	0.81 mm ² (26/0.2mm)	2.5 x 5.0	6.0	23	white with black polarity stripe
83067924	44202-110	1.32 mm ² (42/0.2mm)	2.8 x 5.5	15	13.17	black with white polarity stripe
83067925	44202-101	1.32 mm ² (42/0.2mm)	2.8 x 5.5	15	13.17	white with black polarity stripe
83067926	47902-110	2.50 mm ² (79/0.2mm)	3.5 x 7.5	60	7.98	black with white polarity stripe
83067927	47902-101	2.50 mm ² (79/0.2mm)	3.5 x 7.5	60	7.98	white with black polarity stripe

Elent Audio & Broadcast Cables

Camera Cables

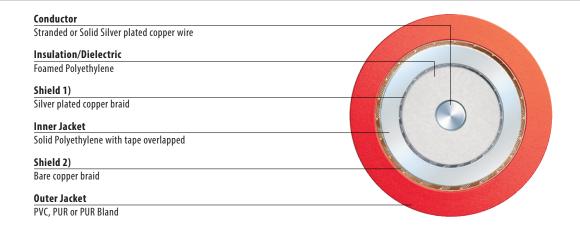
EventSeries™ Hybrid HD Cmaera Cable manufactured according to the requirements of SMPTE 311M standards. This cable contains single mode optical fibres, auxillary and signal conductors for use in professional video productions for simultaneous transmissions of energy, video, audio and control signals and is intended to interconnect camera units and base stations in conjuctions with the connector interface standard. It is suitable for all new digital camera systems of well-known manufacturers. The outer sheath is made of a very durable special LSZH PUR.

Event Series™ Triaxial Camera cables for use in professional studio applications for the simultaneous transmission of power and multiplex image signals between a camera and it's control unit. The different conductor and sheath types available makes this range suitable for every environment whether it be outside or in a studio.





Triaxial Camera Cable



Application	
Event Series™ Triaxial Camera cables for use in professional studio applications for the simultaneous transmission of power and multiple image signals between a camera and it's control unit.	ex

The different conductor and sheath types available makes this range suitable for every environment whether it be outside or in a studio.

Electrical Characteristics				
	Triax 8	Triax 11		
Conductor resistance	< 27 Ω/km	< 13 Ω/km		
Reistance of 1st shield	< 12 Ω/km	< 8 Ω/km		
Resistance of 2nd shield	< 10 Ω/km	< 8 Ω/km		
Insulation resistance*	$> 10~\text{G}\Omega/\text{km}$	> 10 GΩ/km		
Insulation resistance**	$> 10~\text{G}\Omega/\text{km}$	> 10 GΩ/km		
Impedance (200 MHz)	$75\pm1.5~\Omega$	$75\pm1.5\Omega$		
Capacitance (800 Hz	54 pF/m	54 pF/m		
Velocity of Propagation	80 %	80 %		
Shielding efficiency (30-1000 MHz)	> 75 dB	> 75 dB		
Attenuation (1-50 MHz)	5.1 dB/100m	3.7 dB/100m		
Attenuation (50-100 MHz)	7.5 dB/100m	5.4 dB/100m		
Return loss (1-100 MHz)	> 26 dB	> 26 dB		
Return loss (100-1000 MHz)	> 23 dB	> 23 dB		
Operating voltage	300 V ac	400 V ac		

Miltronic Part Number	Part Number	Ø - Outer Jacket (mm)	Colour
-	Triax 8	8.5	Red
-	Triax 11	11	Red



Fibre Hybrid HDTV Camera Cable — SMPTE 311M 83067955



Nin. bending radius	Dynamic - 15 x Ø	
	Static - 10 x Ø	
emperature Range	Storage, -40°C up to +75°C	
	Operation, -30°C up to +60°C	
	Installation, -30 $^{\circ}$ C up to +60 $^{\circ}$ C	
Tensile Strength (approx.)	750 N	
Weight (approx.)	116 kg/km	
Electrical Characteristics		
Auxiliary Conductors AWG2	20 (4 x 0.6mm²)	
DC resistance	≤ 35.3 Ω/km	
Loop resistance	≤ 43 Ω/km	
nsulation resistance	$\geq 104 \text{ M}\Omega^*\text{km}$	
Test voltage	1750 VAC rms	
Operating voltage	≤ 300 VAC rms	
Signal Conductors AWG24 (2 x	0.22 mm ²)	
DC resistance	≤ 97.5 Ω/km	
Loop resistance	≤ 184 Ω/km	
nsulation resistance	≥ 104 MΩ*km	
Test voltage	1750 VAC rms	
Operating voltage	≤ 300 VAC rms	
Braid DC resistance	≤ 20 Ω/km	
Optical Characteristics		
Cut-off wavelength	1100 – 1350 nm	
Attenuation at 1310 nm	0.42 dB/km (max.)	
Attenuation at 1550 nm	0.28 dB/km (max.)	

Cable Construction				
Element A: Auxillary Conductors (4x0.6mm²)				
Conductor:	Stranded tinned copper, 19 x 0.20mm (20awg)			
Insulation:	HDPE, Ø 1.60 ± 0.05mm			
Colour Code:	Blue, White, Black/white, White/black			
Element B: Auxillary C	onductors (2x0.22mm²)			
Conductor:	Stranded tinned copper, 7 x 0.20mm (24awg)			
Insulation:	HDPE, Ø 1.20± 0.05mm			
Colour Code:	Red, Grey			
Element C: Fibre Optic	Single Mode (2 x 9/125μ)			
Mode field diameter	at 1310 nm, diameter 9.5 $\mu m \pm 1 \mu m$			
Cladding diameter	diameter 125 μ m \pm 1 μ m			
Concentricity error	≤ 1 µm			
Coating material	UV-cross-linked Acrylate, diameter 245 μm			
Buffer material	PA + Silicon layer, Ø 0.9 μ m \pm 0.05 μ m			
Identification	Blue, Yellow			
Lay-Up				
Central Element:	19x30mm Steel stranded wire member, HDPE Sheathed, $2.15mm$			
Cable Stranding:	Elements A, B and C around Central Element, \emptyset 5.50 mm apprx.			
Tape:	Woven None Woven			
Braid:	Tinned copper braid, 0.10mm - 80% coverage (nom.)			
Outer Jacket:	Polyurethane (PUR), 1.50 \pm 0.10mm thickness			
Outer Jacket Diameter:	9.2mm (approx.)			
Colour:	Black			



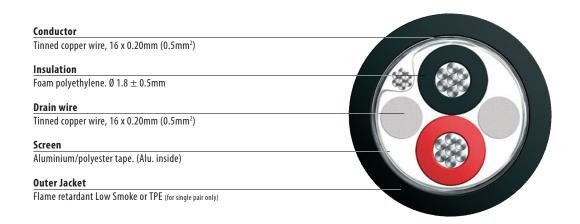
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DMX Data & Scroller Cable





DMX Data Control Cable 500 V



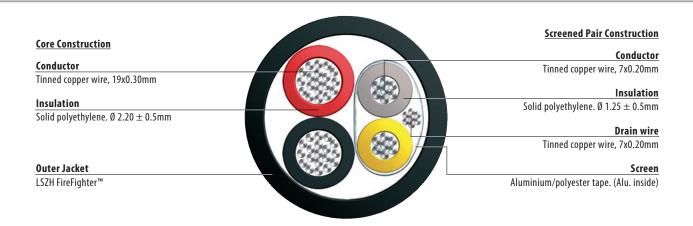
Application	Electrical Characteristics		
The DMX range complies with the requirements of DMX512-A and is an RS-485 based communications protocol that is most commonly used to control stage lighting and effects.	Impedance	110 Ω	
	Tray rated voltage	500 V	
	Test voltage	2000 V	
	Mechanical & Thermal Characteristics		
	Service Temperature	static -20°C up to +80°C	
		mobile -5 $^{\circ}$ C up to +80 $^{\circ}$ C	
	Weight	34 kg/km	

Miltronic Part Number	Part Number	No. Of Pairs	Туре	Ø - Outer Jacket (mm)	Colour
83067949	DMX-01	1	FRLS	4.6	Black
83067952	DMXLSZH-01	1	LSZH FireFighter™	4.6	Black
83067950	DMX-04	1	FRLS	4.6	Red
83067953	DMXLSZH2-01	2	LSZH FireFighter™	8.4	Black
83067951	DMX-P-01*	1	TPE	5.5	Black

^{*} P version is for applications where enhanced flexibility/durability is required.



Scroller Power and Data Cable 600v LSZH FireFighter™



Application	Thermal Characteristics	
This 50005031 scroller cable carries both power and data to your scrollers. The	Covideo Tompovatuva	static -20°C up to +80°C
data cable satisfies the requirementsof DMX 512. It has a tray rated voltage of	Service Temperature	install5°C up to +80°C
600v and is Low Smoke Zero Halogen		

Miltronic Part Number	Part Number	Ø - Outer Jacket (mm)	Weight (kg/km) (approx.)	Colour
83067954	50005031	6.50 ± 0.10	65	Black



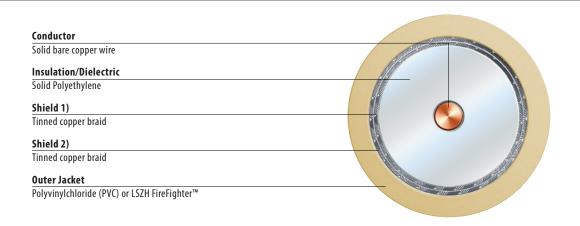
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Video Cables





75 Ω Low Loss Video Coax Cables Broadcast 2 & 3



Application	Electrical Char	acteristics		
EventSeries™ Analogue Video Coaxials are manufactured in accordance			VID1/2	VID1/3
with BBC style PSF 1/3 and 1/2	Impedance	Impedance		75 Ω
	Capacitance		69 pF/m	68.5 pF/m
	Velocity ratio (1-	-10 MHz)	0.65	0.65
	Velocity ratio (20	00 MHz)	0.66	0.66
	Max. Voltage		7kV pulse, 3.5kV RF	5kV pulse, 3.5kV RF
	Shield 1)		24/5/0.15mm	16/7/0.15mm
	Shield 2)		24/6/0.15mm	16/7/0.15mm
		1 MHz	0.8 dB/100m	1.0 dB/100m
		10 MHz	2.6 dB/100m	3.3 dB/100m
		135 MHz	10.1 dB/100m	12.4 dB/100m
		180 MHz	11.8 dB/100m	14.5 dB/100m
	Attenuation	270 MHz	14.7 dB/100m	18.0 dB/100m
		360 MHz	17.1 dB/100m	21.0 dB/100m
		570 MHz	22.1 dB/100m	27.1 dB/100m
		780 MHz	26.5 dB/100m	32.3 dB/100m
		1000 MHz	30.9 dB/100m	37.5 dB/100m

Conductor Size (mm)	Miltronic Part Number	Part Number	Ø - Outer Jacket (mm)	Colour
1/0.8	83067934	VID1/2	7.5	Cream
1/0.605	83067933	VID1/3	6.4	Cream



HD600 Serial Digital Video Cable 75 Ω LSZH FireFighter™



EventSeries HD range as well as being suitable for digital applications are also smaller, lighter and cheaper than the traditional PSF types					
Data Rate	Frequency	Application	HD600		
270 Mb/s	135 MHz	Component Video	262*		
360 Mb/s	180 MHz	Component widescreen	227*		
540 Mb/s	270 MHz	Component widescreen	187*		
720 Mb/s	360 MHz	Component widescreen	161*		
1.44 Gb/s 720 MHz HDTV 70*					
* Maximum Length= 30dB Loss BIT error rate (BER) can vary substantialy as maximum distance is approached, we suggest only to use 90% of the recommended distance.					

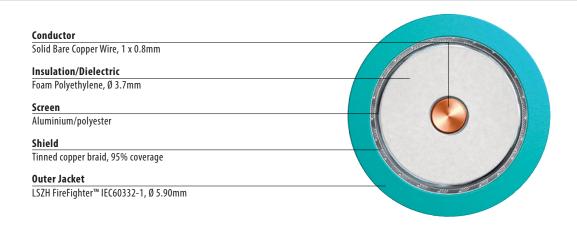
Application

Electrical Characteristics			
Characteristic Impedance	75 ± 1 Ω		
Screening factor		≥ 100 dB	
Velocity Propagation		83 %	
D.C.R Inner Conductor		53.5 Ω/km	
D.C.R Outer Conductor		17.0 Ω/km	
Mutual Capacitance	56 pF/m		
Return Loss 50-300 MHz	≥ 26 dB		
Return Loss 300-3000 MHz	≥ 22 dB		
	1 MHz	1.03 dB/100m	
	10 MHz	3.26 dB/100m	
	135 MHz	11.82 dB/100m	
Attenuation	180 MHz	13.70 dB/100m	
Attenuation	270 MHz	16.45 dB/100m	
	360 MHz	19.20 dB/100m	
	800 MHz	31.10 dB/100m	
	1000 MHz	35.12 dB/100m	

Miltronic Part Number	Part Number	Ø - Outer Jacket (mm)	Colour
83067930	HD600-13	4.5	Turquoise
-	HD600-09	4.5	Violet
-	HD600-03	4.5	Green
-	HD600-05	4.5	Grey
-	HD600-02	4.5	Blue
-	HD600-06	4.5	Yellow



HD720 Serial Digital Video Cable 75 Ω LSZH FireFighter™

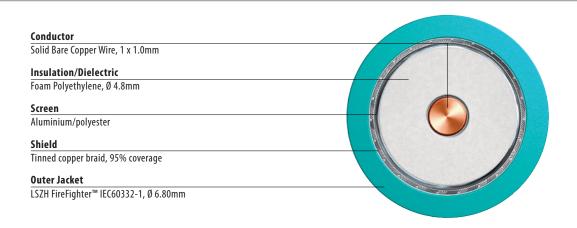


Application				Electrical Characteristics		
EventSeries HD range as well as being suitable for digital applications		Characteristic Impedance		$75 \pm 1 \Omega$		
are also smaller, l	ighter and cheap	er than the traditional	PSF types	Screening factor		≥ 100 dB
				Velocity Propagation		83 %
				D.C.R Inner Conductor		35 Ω/km
				D.C.R Outer Conductor		10 Ω/km
				Mutual Capacitance		56 pF/m
				Return Loss 50-300 MHz		≥ 26 dB
Data Rate	Frequency	Application	HD720	Return Loss 300-3000 MHz		≥ 22 dB
270 Mb/s	135 MHz	Component Video	336*		1 MHz	0.90 dB/100m
360 Mb/s	180 MHz	Component widescreen	290*		10 MHz	2.70 dB/100m
540 Mb/s	270 MHz	Component widescreen	237*		135 MHz	8.45 dB/100m
720 Mb/s	360 MHz	Component widescreen	205*		180 MHz	10.21 dB/100m
1.44 Gb/s	720 MHz	HDTV	120**		270 MHz	12.50 dB/100m
* Maximum Leng				Attenuation	360 MHz	14.61 dB/100m
	** Maximum Length= 20dB Loss BIT error rate (BER) can vary substantialy as maximum distance is ap-				800 MHz	22.80 dB/100m
proached, we suggest only to use 90% of the recommended distance.				1000 MHz	25.50 dB/100m	
				1500 MHz	31.30 dB/100m	
					2250 MHz	39.50 dB/100m
					3000 MHz	45.50 dB/100m

Miltronic Part Number	Part Number	Ø - Outer Jacket (mm)	Colour
83067931	HD720-13	5.90	Turquoise



HD1000 Serial Digital Video Cable 75 Ω LSZH FireFighter™

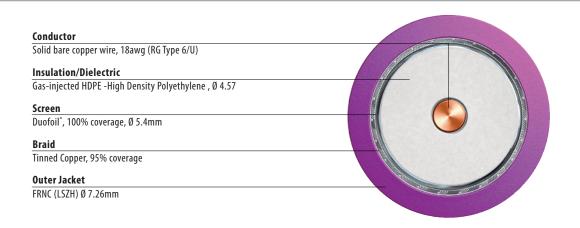


Application				Electrical Characteristics		
EventSeries HD ra	EventSeries HD range as well as being suitable for digital applications		Characteristic Impedance $75 \pm 1 \Omega$		75 ± 1 Ω	
are also smaller, I	ighter and cheap	er than the traditional	PSF types	Screening factor		≥ 100 dB
				Velocity Propagation		83 %
				D.C.R Inner Conductor		22 Ω/km
				D.C.R Outer Conductor		7 Ω/km
				Mutual Capacitance		56 pF/m
				Return Loss 50-300 MHz		≥ 26 dB
Data Rate	Frequency	Application	HD1000	Return Loss 300-3000 MHz		≥ 22 dB
270 Mb/s	135 MHz	Component Video	404*		1 MHz	0.64 dB/100m
360 Mb/s	180 MHz	Component widescreen	349*		10 MHz	2.02 dB/100m
540 Mb/s	270 MHz	Z Component widescreen 284*		135 MHz	7.30 dB/100m	
720 Mb/s	360 MHz	Component widescreen	247*		180 MHz	8.45 dB/100m
1.44 Gb/s	720 MHz	HDTV	HDTV 140**		270 MHz	10.15 dB/100m
	1 GHz		99**	Attenuation	360 MHz	11.30 dB/100m
					800 MHz	18.36 dB/100m
,	* Maximum Length= 30dB Loss ** Maximum Length= 20dB Loss BIT error rate (BER) can vary substantialy as maximum distance is ap-				1000 MHz	19.50 dB/100m
					1500 MHz	25.30 dB/100m
		90% of the recommen			2250 MHz	31.70 dB/100m
					3000 MHz	36.40 dB/100m

Miltronic Part Number	Part Number	Ø - Outer Jacket (mm)	Colour
83067932	HD1000-13	6.80	Turquoise



Belden 1694 ANH FRNC Precision Video Coax Precision Video Coax

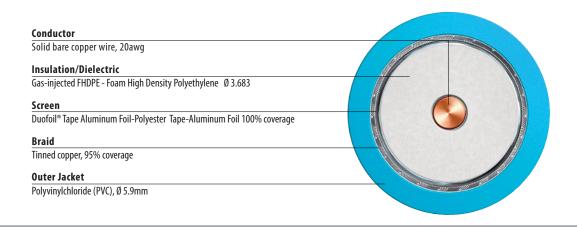


Application		Electrical Characteristics		
Precision video cables are used in critical analog and digital video		Nom. inner conductor D.C.R @ 20 °C	21 0hm/km	
circuits and high quality		Nom. outer conductor D.C.R @ 20 °C	9 Ohm/km	
applications such as live broadcast and pre- or post-production	(HDTV/SDI) in network studios	Return loss at 5-850 MHz	≥ 23 dB	
facilities.		Return loss at 851-3000 MHz	≥ 21 dB	
			1 MHz	0.8 dB/100m
Mechanical Characteristics			3.58 MHz	1.4 dB/100m
Temp. range - storage/operation	-30°C To +70°C		5 MHz	2.3 dB/100m
Temp. range - installation	-5°CTo +70°C		71.5 MHz	5.2 dB/100m
Min. bending radius	10 x Ø		135 MHz	6.9 dB/100m
Nom. cable Weight	59.6 kg/km	Acceptance of	270 MHz	9.7 dB/100m
Flame resistance: CEI 20-22 III (acc. EN	50266-2-4, IEC 60332-3-24 cat. C)	Attenuation	360 MHz	11.2 dB/100m
CEI 20-37/2/5/7 (acc.	EN50267-2-1, 50268-2, NES 713)		540 MHz	13.9 dB/100m
			720 MHz	16.2 dB/100m
			1500 MHz	24.0 dB/100m
			2250 MHz	29.9 dB/100m
			3000 MHz	35.0 dB/100m

Miltronic Part Number	Part Number	Ø - Outer Jacket (mm)	Colour
83067971	1694ANH	7.26	Violet



Belden 1505A Coax - RG59/U Type Precision Video Coax



Mechanical Characteristics		Electrical Characteristics	
Operating Temperature Range	-30°C To +75°C	Nom. Characteristic Impedance	75 0hm
UL Temperature Rating	75°C	Nom. Inductance	0.351067 μH/m
Bulk Cable Weight	46.134 Kg/Km	Nom. Capacitance (cond./shield)	53.4803 pF/m
Max. Recommended Pulling Tension	209.065 N	Nom. Velocity of Propagation	83%
Min. Bend Radius (Install)/Minor Axis	63.500 mm	Nom. Delay	4.00282 ns/m
		Nom. Conductor DC Resistance	32.81 Ohm/km
		Nom. Outer Shield DC Resistance	12.4678 Ohm/km
		Electrical characteristics continued on	next page

	Miltronic Part Number	Part Number	Ø - Outer Jacket (mm)	Colour	Other colours on request
Ī	83067972	1505A	5.97	Blue, Light	



Belden 1505A Coax - RG59/U Type - Transmission Characteristics

Nom. Attenuation

Frequency (MHz)	Attenuation (dB/100m)
1.000	0.984
3.600	1.969
5.000	2.067
6.000	2.264
7.000	2.428
10.000	2.953
12.000	2.986
25.000	4.265
67.500	6.726
71.500	6.890
88.500	7.218
100.000	7.546
135.000	8.859
143.000	9.187
180.000	10.171
270.000	12.468
360.000	14.436
540.000	18.046
720.000	20.998
750.000	21.327
1000.000	24.936
1500.000	30.513
2000.000	35.763
3000.000	43.965
2250.000	38.060
4500.000	53.808

Minimum return loss

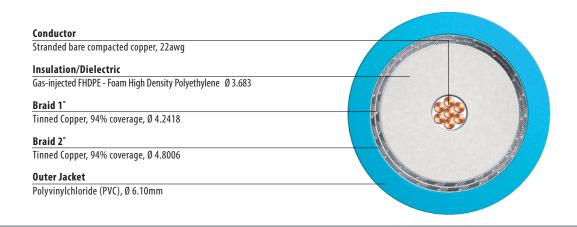
Start Frequency (MHz)	Stop Frequency (MHz)	Min. Return loss (dB)
5	1600	23
1600	4500	21

Other Electrical Characteristic 1: Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 0hm fixed bridge and termination. 75 \pm 1.5 0hms

Other Electrical Characteristic 2: Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.



Belden 1505F Coax - RG59/U Type Precision Video Coax



Mechanical Characteristics		Electrical Characteristics	
Operating Temperature Range	-35°C To +75°C	Nom. Characteristic Impedance	75 0hm
UL Temperature Rating	75°C	Nom. Inductance	0.308414 μH/m
Bulk Cable Weight	61.016 Kg/Km	Nom. Capacitance (cond./shield)	55.777 pF/m
Max. Recommended Pulling Tension	400.338 N	Nom. Velocity of Propagation	80%
Min. Bend Radius (Install)/Minor Axis	60.960 mm	Nom. Delay	4.2653 ns/m
		Nom. Conductor DC Resistance	40.0282 0hm/km
		Nom. Outer Shield DC Resistance	7.8744 Ohm/km
		Electrical characteristics continued on	next page

Miltronic Part Number	Part Number	Ø - Outer Jacket (mm)	Colour	Other colours on request
83067973	1505F-02	6.10	Blue, Light	
83067974	1505F-01	6.10	Black	



Belden 1505F Coax - RG59/U Type - Transmission Characteristics

Nom. Attenuation

Frequency (MHz)	Attenuation (dB/100m)
1.000	0.656
3.600	1.641
5.000	1.969
6.000	2.198
7.000	2.395
10.000	2.953
12.000	3.215
25.000	4.725
67.500	7.874
71.500	8.203
88.500	9.187
100.000	9.843
135.000	11.484
143.000	11.812
180.000	13.452
270.000	16.733
360.000	19.686
540.000	24.279
720.000	28.545
1000.000	34.451
750.000	29.201
1500.000	43.637
2000.000	51.512
2250.000	55.449
3000.000	66.604

Minimum return loss

Start Frequency (MHz)	Stop Frequency (MHz)	Min. Return loss (dB)
5.000	850.000	20.000
851.000	4500.000	15.000

Other Electrical Characteristic 1: Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.

 $Other \ Electrical \ Characteristic \ 2: Return \ Loss \ tested \ in \ accordance \ with \ ASTM \ D-4566 \ paragraph \ 45.3, using \ a 75 \ Ohm \ fixed \ bridge \ and \ termination.$



Multicore Miniature Cable "RGB" Style LSZH FireFighter™

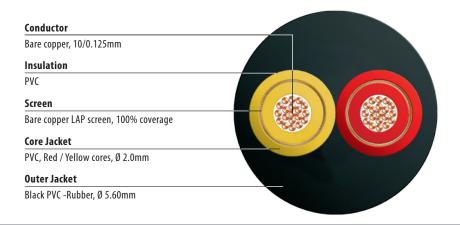


Application	Electrical Characteristics	
This range of cable is intended for high performance video signal	Impedance	75 Ω
distribution including RGB, Sync etc.	Conductor resistance	265 Ω/km
	Braid resistance	26 Ω/km

Formation (cores x stranding)	Miltronic Part Number	Part Number	No. of Coax	Ø - Outer Jacket (mm)
1 x 7/0.12mm	-	658500	1	2.6
3 x 7/0.12mm	83067936	432244	3	7.1
4 x 7/0.12mm	83067937	4433244	4	8.2
5 x 7/0.12mm	83067938	4533244	5	8.5
6 x 7/0.12mm	83067939	4633244	6	9.1



Miniature 2core 75Ω S-VHS Coaxial Cable 83067940



Application	Technical Characteristics	
The EventSeries™ S-VHS cables is a two core 75Ω coaxial for use	Resistance	141 Ω/km
with 4 pin mini-DIN connectors as used in S-Video Y/C connec-	Capacitance	330 pF/m
tions. May also be suitable for unbalanced audio connections.	Weight	4.5 kg/100m



Field Deployable UpJacketed Ethernet Cable



Cat 5e Ethernet Cable which is field deployable for use in CobreNet, Ethersound, any application where digital audio over ethernet is required.

CatSnake UTP cables offer exceptional audio/video performance, plus they are extremely rugged and flexible for use out of doors, in broadcast truck applications, in studios and for portable, professional audio/video use.

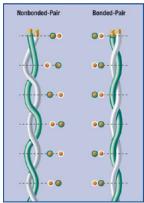
CatSnake Category 5e cables for use in patching Ethernet or digital audio/video formats utilizing Cat 5e-type cable. Because these Category 5e UTP cables are extremely rugged and utilize Bonded-Pair design, they are able to be used in high traffic areas in a broadcast studio or in any type of tactical, field deployable audio/video installation.

CatSnake Bonded-Pair Cat 5e Audio cables maintain their impedance and Return Loss performance when flexed and handled in rugged, Oharsh environments.

Characteristics

- Bonded pairs for uniform conductor spacing
- · Extremely rugged
- Supple Matt Finish
- · Field deployable

Bonded-Pair Design Means Installable Performance®



Bonded-Pair cables have a uniform conductor-to-conductor spacing; nonbonded-pair cables are inconsistent.



Belden 1305A Multi-Conductor UpJacketed CatSnake°



Application		Electrical Characteristics	
24AWG Bonded-Pairs stranded (7x32) bare copper conductors, polyole-fin insulation, inner and outer PVC. Suitable for Field Deployable Cat 5e Patch, CobraNet, eSnake, Ethersound, Digital Audio over Ethernet. Mechanical & Thermal Characteristics		Nom. Mutual Capacitance	49.215 pF/m
		Max. Capacitance Unbalance	66 pF/100m
		Nom. Velocity of Propagation	70%
		Max. Delay	510 ns/100m
		Max. Delay Skew	25 ns/100m
Operating Temperature range	-20°C up to +60°C	Max. Conductor DC Resistance	9 0hm/100m
Bulk Cable Weight	56.552 kg/km	Max. Operating Voltage - UL	300 V rms
Max. recommended Pulling Tension 195.721 N		Max. DCR Unbalanced	3%
		Electrical characteristics continued	on next page

Miltronic Part Number	Part Number	Ø - Outer Jacket (mm)	Colour
83067338	1305A	7.80	Black



Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1

Frequency (MHz)	Max. Attenuation (dB/100m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. PSACR (dB)	Min. RL (dB)
1	2.400	65.3	65.3	62.9	20.000
4	4.800	56.3	56.3	51.5	23.000
6	5.900				
8	6.800	51.8	51.8	45.0	24.500
10	7.700	50.3	50.3	42.6	25.000
12	8.400				
16	9.700	47.3	47.3	37.5	25.000
20	11.000	45.8	45.8	34.8	25.000
25	12.400	44.3	44.3	31.9	24.300
31.25	13.900	42.9	42.9	29.0	23.600
62.5	20.200	38.4	38.4	18.3	21.500
100	26.000	35.3	35.3	9.2 2	0.100
155	33.200	32.5	32.5	0	19.000
200	38.400	30.8	30.8		19.000
250	43.700	29.3	29.3		18.000
300	48.600	28.2	28.2		18.000
310	49.500	27.9	27.9		18.000
350	53.200	27.2	27.2		17.000

Premise Cable Electrical Table 2

Frequency (MHz)	Input (Unfitted) Imp. (Ω)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	105 ± 10	63.8	60.8
4	100 ± 12	100 ± 10	51.7	48.7
8	100 ± 12	100 ± 10	45.7	42.7
10	100 ± 12	100 ± 10	43.8	40.8
16	100 ± 12	100 ± 10	39.7	36.7
20	100 ± 12	100 ± 10	37.7	34.7
25	100 ± 15	100 ± 10	35.8	32.8
31.25	100 ± 15	100 ± 10	33.9	30.9
62.5	100 ± 15	100 ± 10	27.8	24.8
100	100 ± 18	100 ± 10	23.8	20.8
155	100 ± 18	100 ± 10	19.9	16.9
200	100 ± 20	100 ± 10	17.7	14.7
250	100 ± 20	100 ± 10	15.8	12.8
300	100 ± 20	100 ± 10	14.2	11.2
310	100 ± 20	100 ± 10	13.9	10.9
350	100 ± 22	100 ± 10	12.9	9.9





Lighting Control Cable



series allows for superior flexibility and good mechanical resistance.

"ZHL" series can be used where it is neccessary that the cable be Low Smoke Zero Halogen

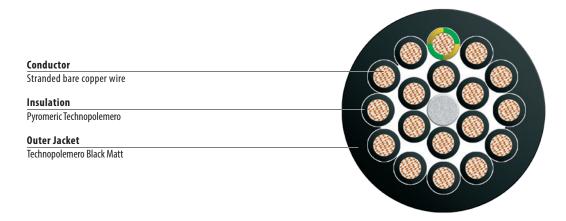
*Socapex is a registered trademark of Amphenol

- Superior Flexibility
- Good mechanical resistance
- Low Smoke Zero Halogen





FHL Lighting Control Cable



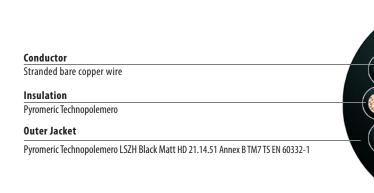
Application				
This range of control cables have been designed for use with "Socapex™ style 19pin lighting connectors. The use of extra supple compounds give them good flexibility and good mechanical resistance."				
Mechanical & Thermal Characteristics				
Temperature range (static)	-30°C up to +70°C			
Temperature range (operating)	-5°C up to +70°C			
Bending radius	7.5 x Ø			

Electrical Characteristics				
Conductor resistance at 20°C	1.5mm ²	< 13.3 Ω/km		
Conductor resistance at 20 C	2.5mm ²	< 7.98 Ω/km		
Insulation resistance	200 MΩ x km			
Max. Working voltage	300/500 V			
Test voltage	> 3 kV			

Formation (cores x mm²)	Miltronic Part Number	Part Number	Stranding (mm)	Ø - Outer Jacket (mm)	Weight (kg/km)
3 x 1.5	83067941	FHL 315	30/0.25	8.3	113
3 x 2.5	83067942	FHL 325	50/0.25	10.0	170
18 x 1.5	83067943	FHL 1815	30/0.25	16.95	461
18 x 2.5	83067944	FHL 1825	50/0.25	18.80	683



ZHL Lighting Control Cable LSZH FireFighter™



Application		Electrical Characteristics		
This range of Low Smoke Zero Halogen control cables have been designed for use with "Socapex™" style 19pin lighting connectors where LSZH cables are specified. The use of extra supple compounds give them good flexibility and good mechanical resistance.		Conductor resistance at 20°C	1.5mm ²	< 13.3 Ω/km
		Collauctor resistance at 20°C	2.5mm ²	< 7.98 Ω/km
		Insulation resistance		200 MΩ x km
		Max. Working voltage		300/500 V
		Test voltage		> 3 kV
Mechanical & Thermal Characteris	tics	Fire Behaviour		
Temperature range (static) -30°C up to +70°C		Degree of acidity of gases TS EN 50267-2-3 self extinguishing acc. to IEC 60332-3		
Temperature range (operating) -5° C up to $+70^{\circ}$ C		Amount of halogen acid gas TS EN 50267-2-1 Flame resistant acc. to IEC 60332-3		
Bending radius 7.5 x Ø		Smoke density TS EN 61034-2		

Formation (cores x mm²)	Miltronic Part Number	Part Number	Stranding (mm)	Ø - Outer Jacket (mm)	Weight (kg/km)
3 x 1.5	83067945	ZHL 315	30/0.25	8.3	113
3 x 2.5	83067946	ZHL 325	50/0.25	10.0	170
18 x 1.5	83067947	ZHL 1815	30/0.25	16.95	461
18 x 2.5	83067948	ZHL 1825	50/0.25	18.80	683



FHL7075 Thin Wall 7core Lighting Control Cable

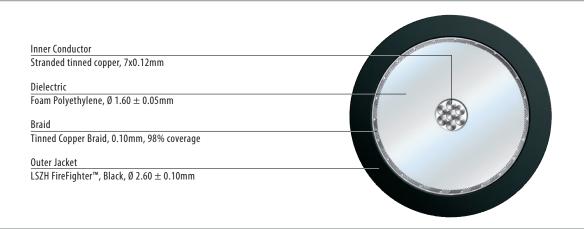


Application
FHL7075 7core power cable for making multi-core mains leads between effects lighting and controllers using Bulgin power connectors. Also suitable for trailer and caravan tail light connectors.

Cable Construction				
Cores	manufactured to ISO 6722 : 2006 (Class B) 105°C Plain copper conductors - PVC sheathed 70°C			
Cross section	0.75mm², (24/0.20mm)			
No. of Cores	7			
Outer Jacket diameter	6.8mm			
Electrical Characteristics				
Nom. Current Rating	14.0 Amps			



75 Ω Miniature Coaxial Cable RG179

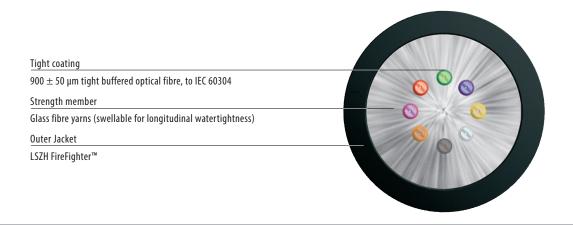


Mechanical and Thermal Charact	eristics	Electrical Characterist	tics	
Temperature Range (static)	-20°C up to +80°C	Conductor DC resistance		239.5 Ω/km
Temperature Range (Installation)	-5°C up to +80°C	Capacitance		60 pF/m
Weight (approx.)	13 kg/km	Impedance		75 Ω
			50 MHz	13.30 dB/100m
			100 MHz	20.40 dB/100m
		Attenuation	200 MHz	29.70 dB/100m
			400 MHz	43.00 dB/100m
			1000 MHz	74.90 dB/100m

Miltronic Part Number	Part Number	Colour
83067935	551100	Black



Tight Buffered Fibre Optic Cable HDTV LSZH



Mechanical Characteristics				
Bending radius (min.)	long term	15 x Ø (no load)		
	short term	25 x Ø (load)		
Crush resistance		2000 N/10cm		
Impact resistance		3 impacts (w/20N.m)		
Fire behaviour				
Halogen free	acc. to IEC 60754-2			
Flame retardant	acc. to IEC 60332-1			

Thermal Characteristics							
Temperature range	Storage	-40°C to +60°C					
	Installation	-5°C to +40°C					
	Operating	-20°C to +50°C					

Miltronic Part Number	Part Number	Fibre Type	No. of fibres	Overall-Ø (mm)	Tensile Strength (N)	Colour
83067956	102044TB-01	50/125 OM2	4	5.5 ± 0.5	1000	Black
83067957	102084TB-01	50/125 OM2	8	6.5 ± 0.5	1400	Black
83067958	102124TB-01	50/125 OM2	12	7.3 ± 0.5	1600	Black
83067959	102164TB-01	50/125 OM2	16	8.0 ± 0.5	1800	Black
83067960	102244TB-01	50/125 OM2	24	10.4 ± 0.5	2900	Black
83067961	101044TB-01	62,5/125 OM1	4	5.5 ± 0.5	1000	Black
83067962	101084TB-01	62,5/125 OM1	8	6.5 ± 0.5	1400	Black
83067963	101124TB-01	62,5/125 OM1	12	7.3 ± 0.5	1600	Black
83067964	101164TB-01	62,5/125 OM1	16	8.0 ± 0.5	1800	Black
83067965	101244TB-01	62,5/125 OM1	24	10.4 ± 0.5	2900	Black
83067966	108044TB-01	9/125 0S1	4	5.5 ± 0.5	1000	Black
83067967	108084TB-01	9/125 0S1	8	6.5 ± 0.5	1400	Black
83067968	108124TB-01	9/125 0S1	12	7.3 ± 0.5	1600	Black
83067969	108164TB-01	9/125 0S1	16	8.0 ± 0.5	1800	Black
83067970	108244TB-01	9/125 0S1	24	10.4 ± 0.5	2900	Black

