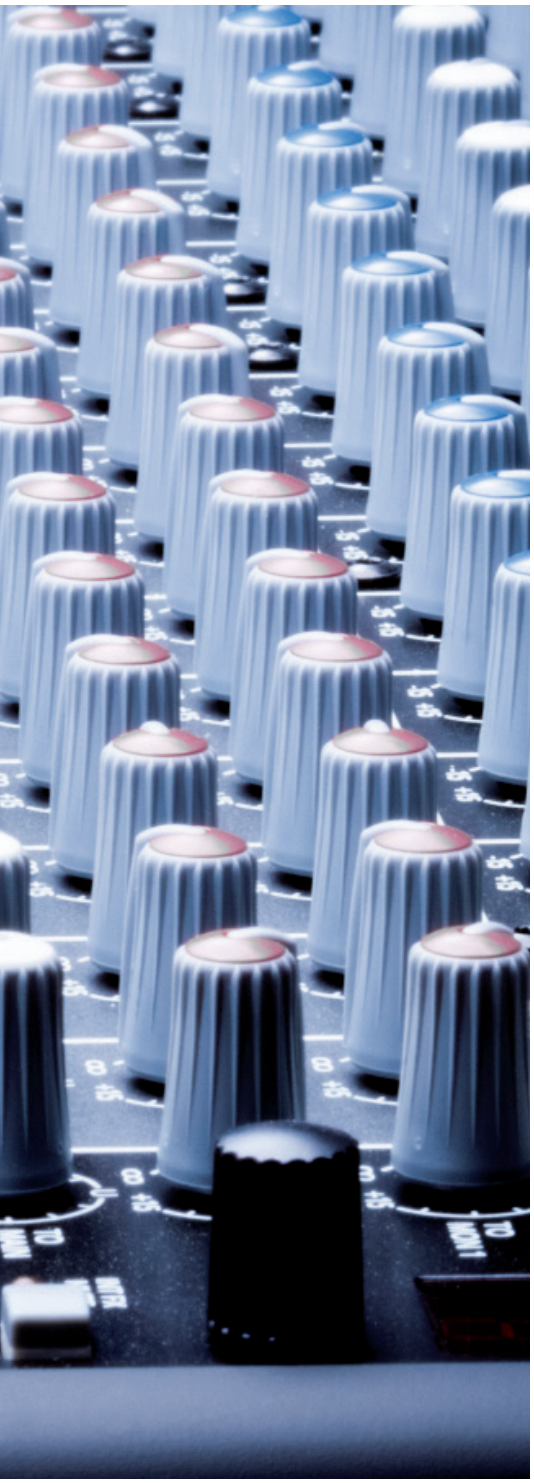
EventSeries™ | Audio, Broadcast & Lighting Cables


MAIN



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.

Series™ Event
Audio & Broadcast Cables

Publication Contents

Series Event Audio & Broadcast Cables

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

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

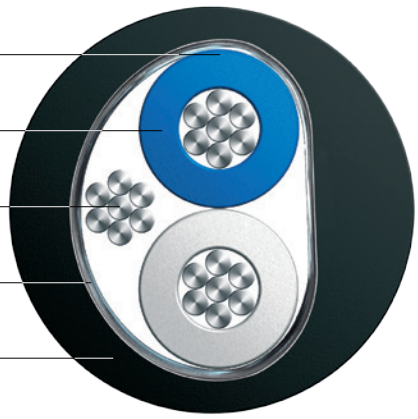
Conductor
Oxygen free tinned copper, 7x0.20mm (0.22mm²)

Insulation
Foam Polyethylene (PE) with skin. Blue/White cores

Drain wire
Stranded tinned copper

Screen
Bonded aluminium/polyester tape (Alu. inside)

Outer Jacket
Polyvinylchloride (PVC), Ø 4.20mm



Application

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.

Electrical Characteristics		
Nom. Capacitance	47 pF/m	
Impedance	110 Ω	
Conductor resistance	< 85 Ω/km	
Insulation resistance	> 100 GΩ/km	
Attenuation	1 MHz	2.3 dB/100m
	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™

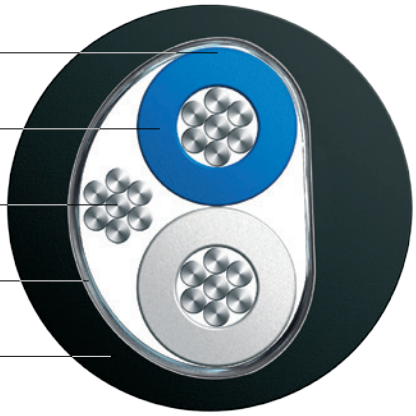
Conductor
Oxygen free tinned copper, 7x0.20mm (0.22mm²)

Insulation
Foam Polyethylene (PE) with skin. Blue/White cores

Drain wire
Stranded tinned copper

Screen
Bonded aluminium/polyester tape (Alu. inside)

Outer Jacket
LSZH FireFighter™, Ø 3.60mm



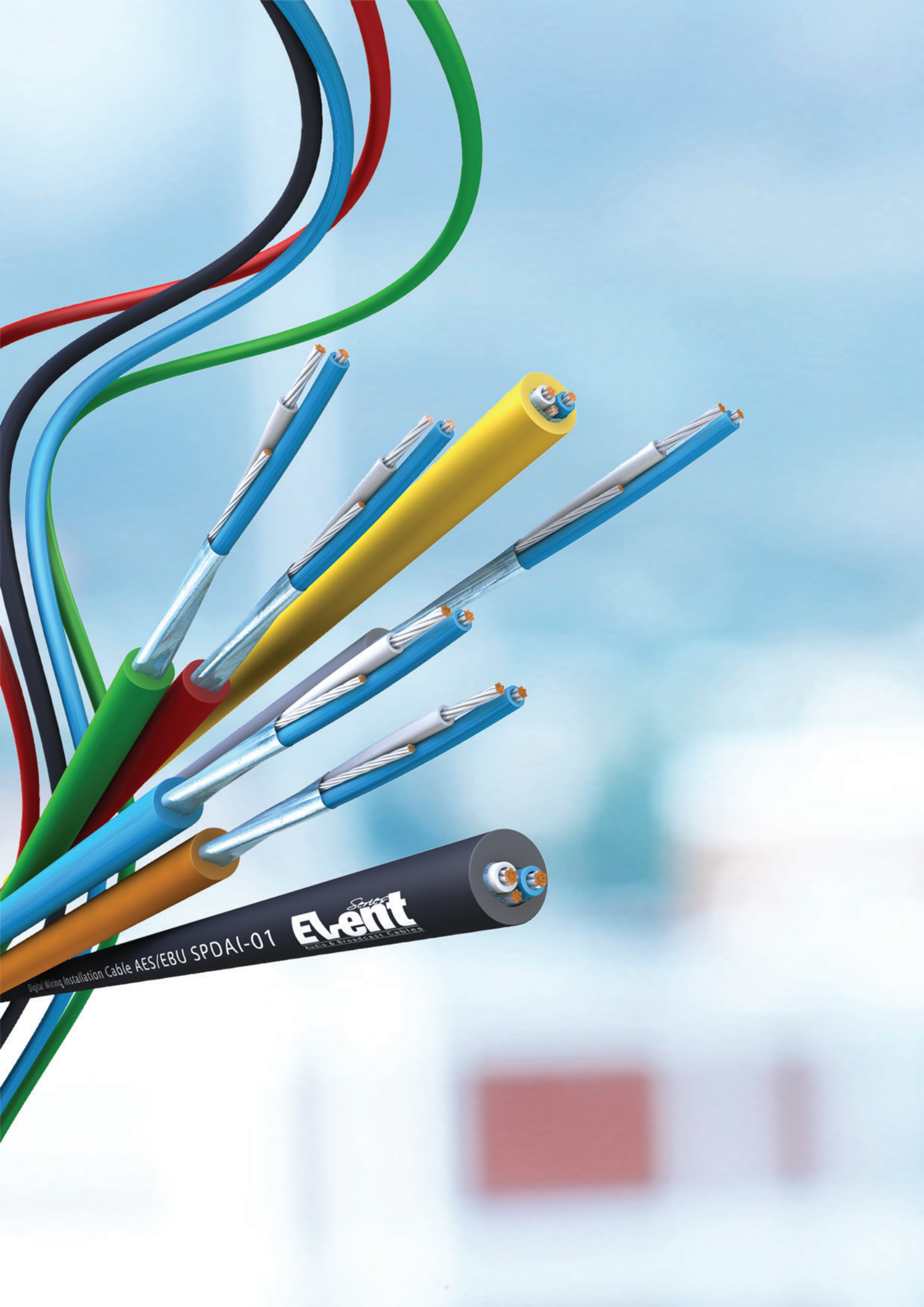
Application

The SPDAIFF is the LSZH FireFighter™ digital version of the SPAI and 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. The overall sheath is a Low Smoke Zero Halogen material. The finished product is ideal for use in public buildings where LSZH cables are specified. It can be used for analogue or digital applications.

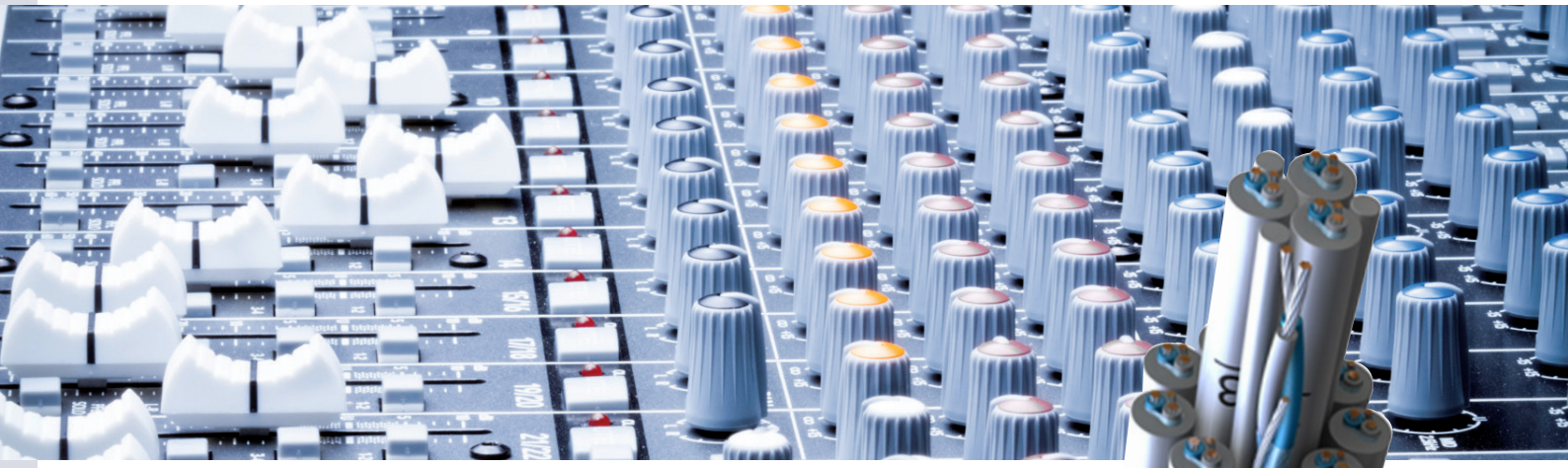
Electrical Characteristics

Nom. Capacitance	47 pF/m	
Impedance	110 Ω	
Conductor resistance	< 85 Ω/km	
Insulation resistance	> 100 GΩ/km	
Attenuation	1 MHz	2.3 dB/100m
	3 MHz	3.9 dB/100m
	10 MHz	6.9 dB/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


Digital Wiring Installation Cable AES/EBU SPDAI-01
Event
Audio & Broadcast Cables

MultiPair Analogue/Digital Audio Cables

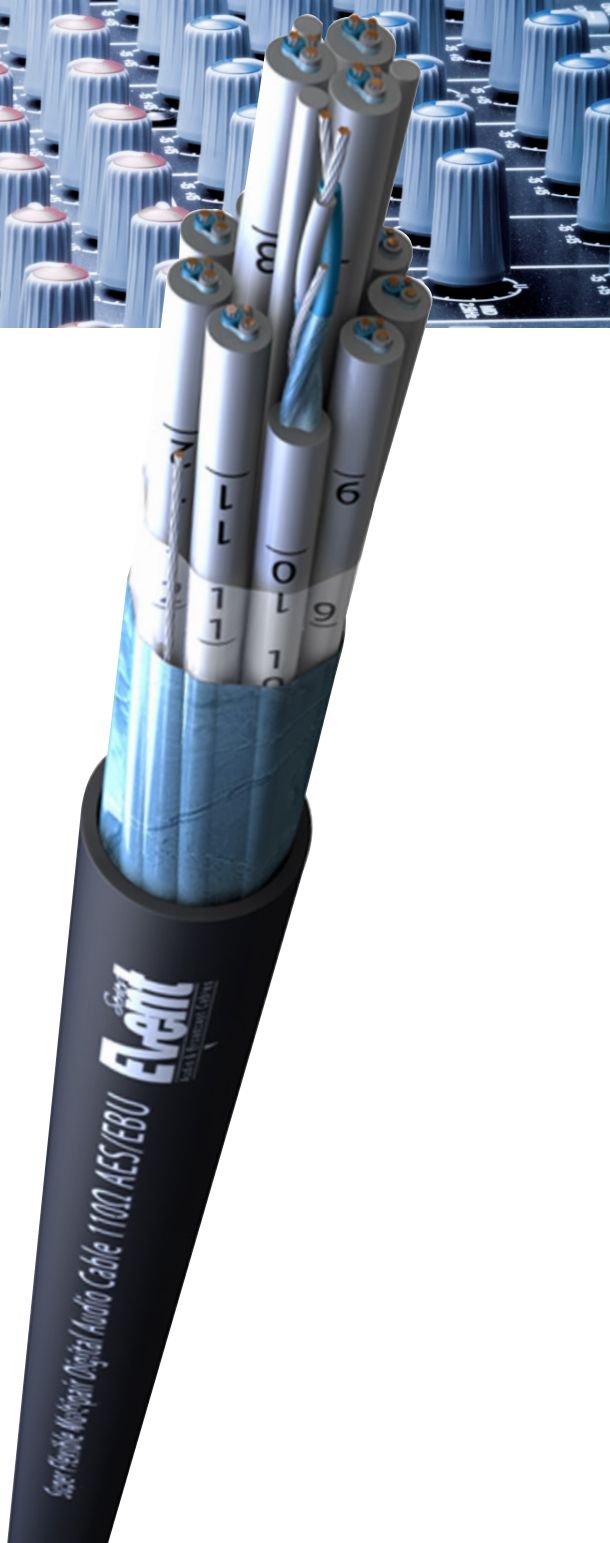


Event™ 110Series Pre-Jacketed digital/ analogue audio multicore cables are designed with the Professional user in mind . Each of the cable types are designed to deliver real 110Ω AES/EBU performance. The balanced performance coupled with Oxygen Free Tinned Copper and our EasyStrip bonded aluminium foil 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

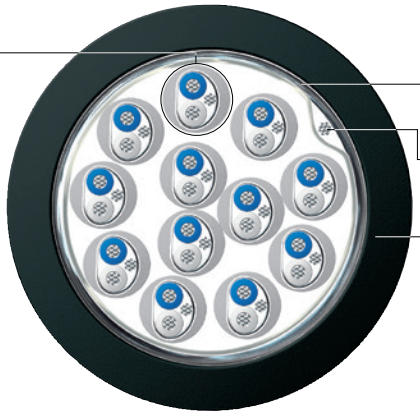
Pair Construction
Oxygen free tinned copper, 7x0.20mm (0.22mm²)

Insulation
Polyethylene (PE). Blue/White cores

Drain wire
Stranded tinned copper

Screen
Bonded aluminium/polyester tape (Alu. inside)

Outer Jacket
Technopolemero, with pair identification



Screen
Aluminium/polyester tape (Alu. inside)

Drain Wire
Tinned Copper

Outer Jacket
Technopolemero, Black

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 MΩ/km
Mechanical & Thermal Characteristics	
Min. Bending radius	5 x Ø (fixed)
	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**

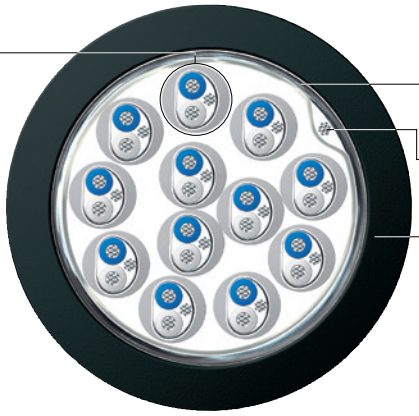
Pair Construction
Oxygen free tinned copper, 7x0.20mm (0.22mm²)

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**

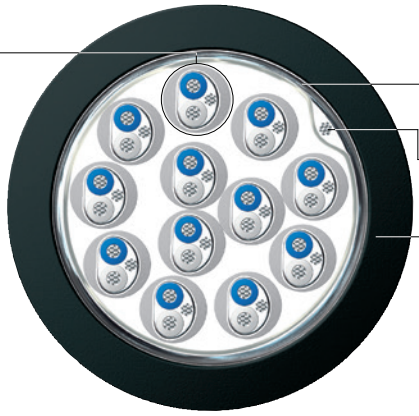
Pair Construction
Oxygen free tinned copper, 7x0.20mm (0.22mm²)

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-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**

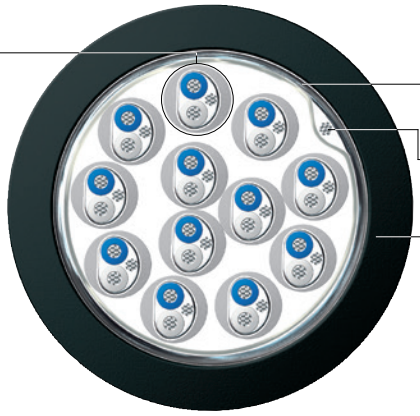
Pair Construction
Oxygen free tinned copper, 7x0.20mm (0.22mm²)

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)

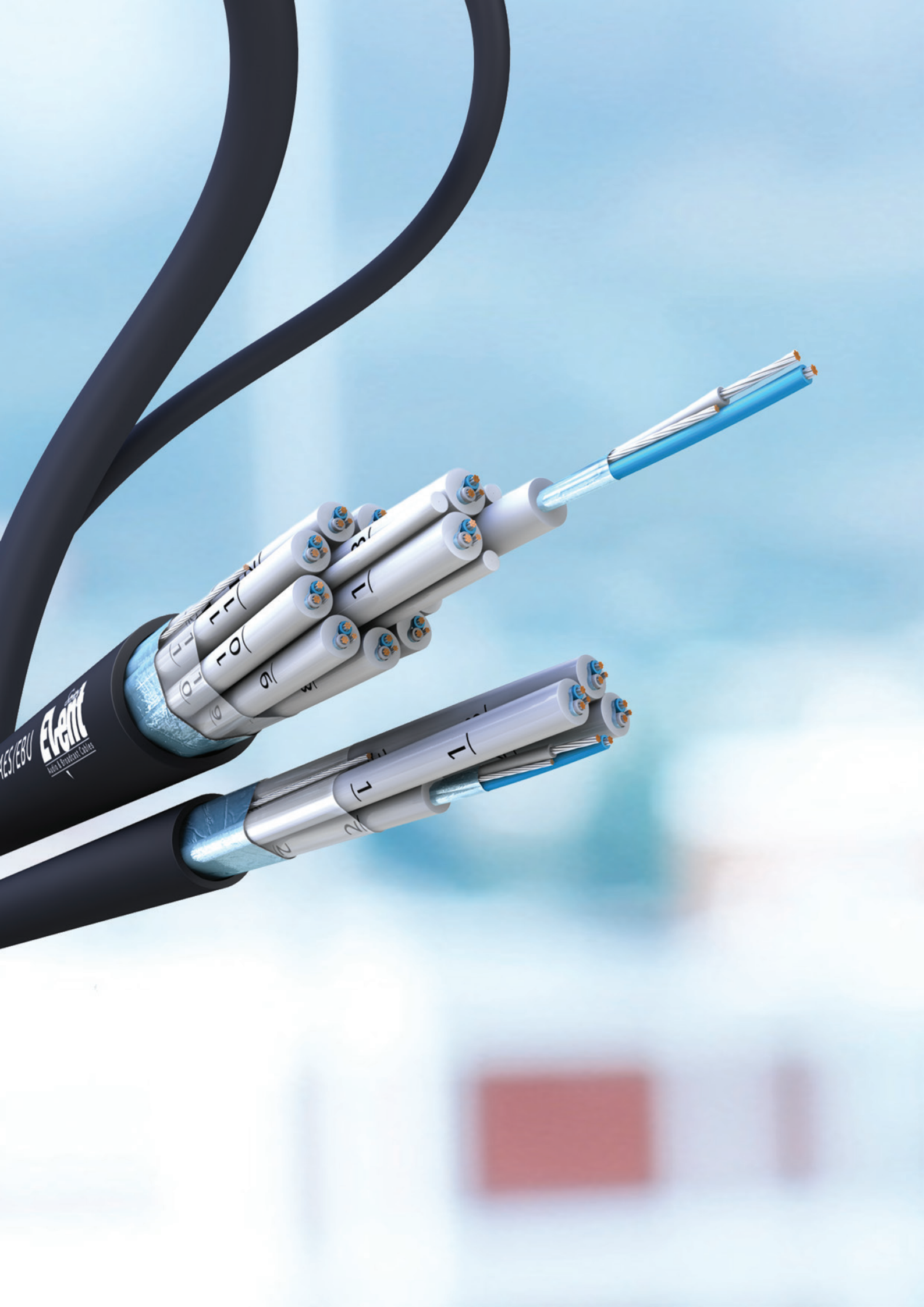
Outer Jacket
LSZH FireFighter™ SHF-1, Black

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


Event

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

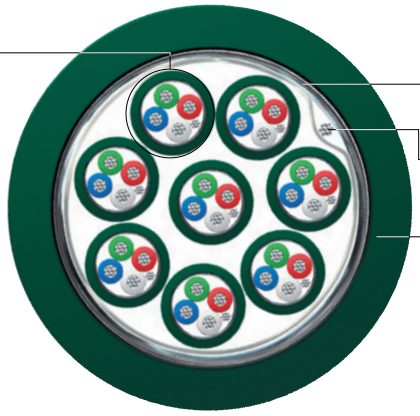
Quad Construction
Oxygen free tinned copper, 7x0.20mm (0.22mm²)

Insulation
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

The Event Series™ Professional Microphone cables have been developed using years of experience in the light and sound industry .Recognising how testing this environment can be careful consideration has been given to their construction. Belcom realise how important it is that a microphone cable is soft and pliable even at low temperatures whilst remaining durable which is why the best raw materials are used , the use of kevlar threads are included in the process adding to the overall strength of the products.

MLX2 Professional Microphone Cable
This balanced microphone cable is manufactured using oxygen free copper. It has a LAP screen and enlarged sheath which is made of a soft and very flexible compound mix with matt finish in several colours. The cable also has kevlar strength members adding to the durability.

Characteristics :

- Oxygen Free Copper
- High Flex
- Supple Matt Finish
- Kevlar Thread for Pull Strength
- Kink Resistant
- Low Noisel

MLX4 Professional Starquad Microphone cable. This starqaud version of our microphone cable is intended for use in noisy areas since the starquad design cancels out interference and external noise . We also incorporate the kevlar threads in this version .

OFC Microphone Cable MLX2

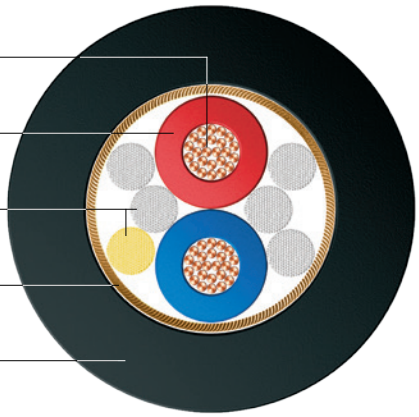
Conductor
Oxygen free Copper, 28 x 0.1mm (0.22mm^2)

Insulation
Special Polymer. Red/Blue cores

Strain Relief
Kevlar strength member with cotton fillers

Shield
Bare copper spiral screen

Outer Jacket
Technopolemero, Black



Application

MLX2 is a professional grade oxygen free microphone cable. It has a LAP 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.

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

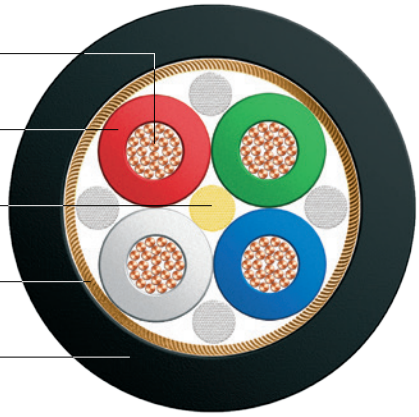
Conductor
Oxygen free Copper, 28 x 0.1mm (0.22mm²)

Insulation
Special Polymer. Red/Blue/Green/White cores

Strain Relief
Kevlar strength member with cotton fillers

Shield
Bare copper spiral screen

Outer Jacket
Technopolemero, Black



Application

MLX4 is a professional grade oxygen free microphone cable. It has a LAP screen and an enlarged sheath which is made of a very soft and flexible compound mix with matt finish. For use in noisy areas since the starquad design cancels out interference and external noise, so it's ideal for noisy areas. The cable also has a kevlar strength member adding to the cables durability.

Electrical Characteristics	
Nom. Capacitance (cond./cond.)	90 pF/m
Nom. Capacitance (cond./cond./shield)	180 pF/m
Conductor resistance	85 Ω/km
Insulation resistance	20 MΩ*km
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

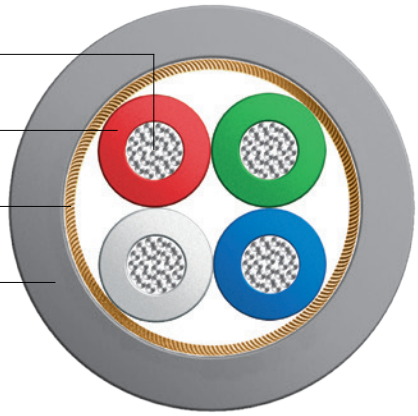
OFC Starquad Microphone Cable ML4/1

Conductor
Tinned Copper, 14 x 0.122mm (0.16mm²)

Insulation
LSZH FireFighter™ Red/Blue/Green/White cores

Shield
Bare copper spiral screen

Outer Jacket
LSZH FireFighter™, Grey

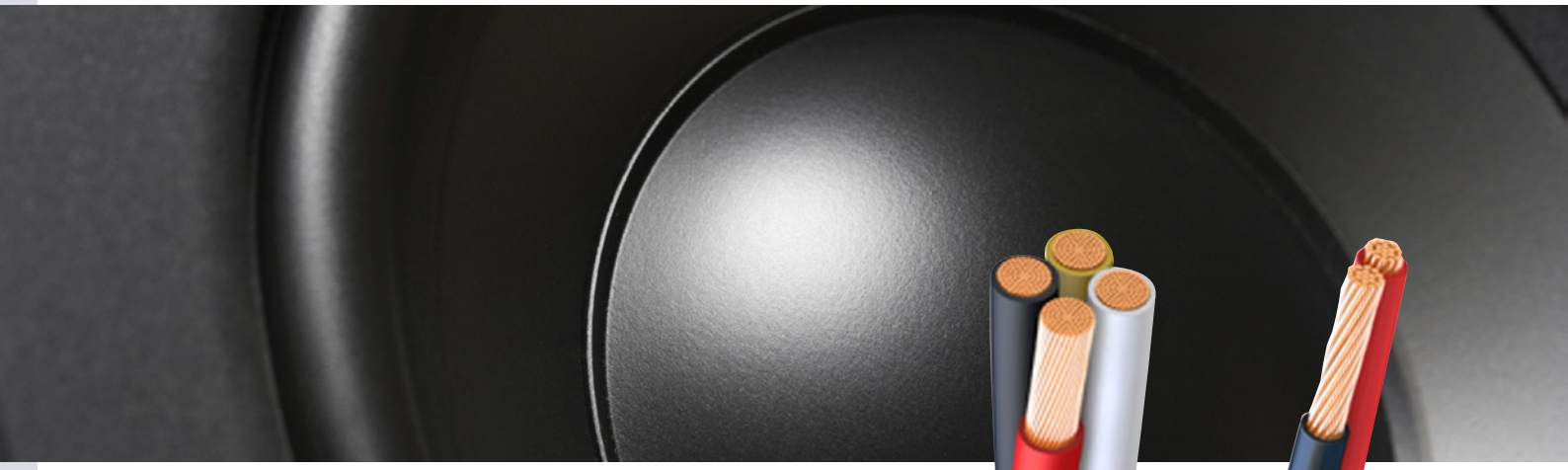


Application
ML4/1 is a fixed installation starquad microphone cable. The Low Smoke Zero Halogen sheath makes it ideal for use in public buildings where Low Smoke Zero Halogen is specified.

Electrical Characteristics	
Nom. Capacitance Unbalance	80 pF/m
Nom. Capacitance (cond./cond.)	120 pF/m
Conductor resistance	105 Ω/km

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

Speaker Cables



The Event Series™ Speaker Cables include Tour Grade FHP & ZHP Professional circular speaker cables standard or LSZH versions , 500Series Installation Speaker Cables for multi-room and home cinema use and Hi-Fi interconnect version in twin figure 8 construction which are available with multi stranded Linear Crystal Oxygen Free conductors or commercial grade version.

Characteristics

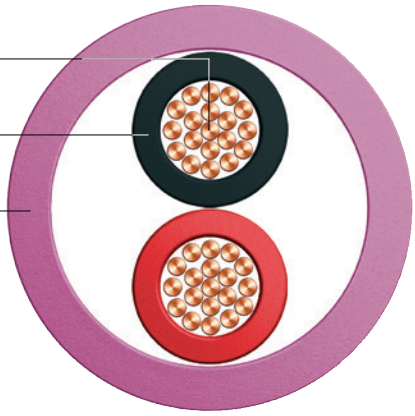
- Oxygen Free Copper wire
- High Flex
- LSZH or supple Technical Polymers
- Speaker Cables for any Event

Installation Speaker Cables 500Series LSZH FireFighter™

Conductor
Oxygen free copper wire, 16 AWG

Insulation
LSZH FireFighter™

Outer Jacket
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
	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

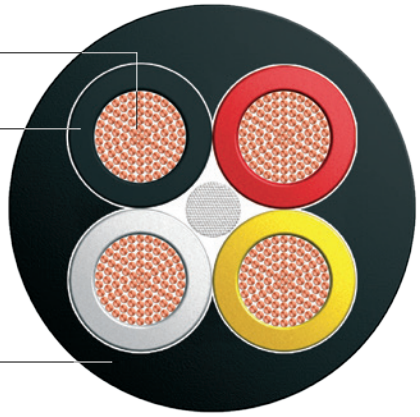
2 core - Red / Black

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 resistance.

Electrical Characteristics		
Conductor resistance	1.5mm²	< 13.3 Ω/km
	2.5mm²	< 7.98 Ω/km
	4.0mm²	< 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

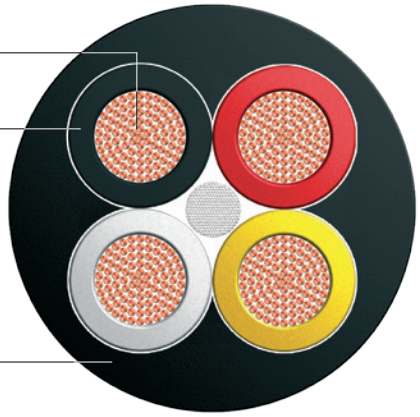
2 core - Red / Black

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

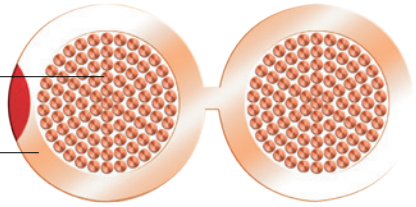
Electrical Characteristics		
Conductor resistance	1.5mm²	< 13.3 Ω/km
	2.5mm²	< 7.98 Ω/km
	4.0mm²	< 4.95 Ω/km
Insulation resistance	20 MΩ x km at 20°C	
Max. working voltage	50/75 V AC/DC	
Test voltage	> 1 kV at 50Hz eff. for 1 min.	
Test voltage	> 2000 V	
Thermal Characteristics		
Temperature Range	*static* -20°C up to +80°C	
	operat. -5°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	
Temperature Range	*static* -30˚C up to +70˚C
	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

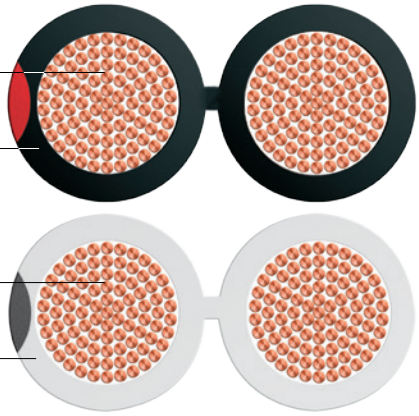
Commercial Grade Speaker Cables Flat Twin Figure 8 OFC

Conductor
Stranded Oxygen Free Bare copper

Insulation / Outer Jacket
Polyvinylchloride (PVC), Black + Red polarity indicator

Conductor
Stranded Oxygen Free Bare copper

Insulation / Outer Jacket
Polyvinylchloride (PVC), White + Black polarity indicator



Application

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

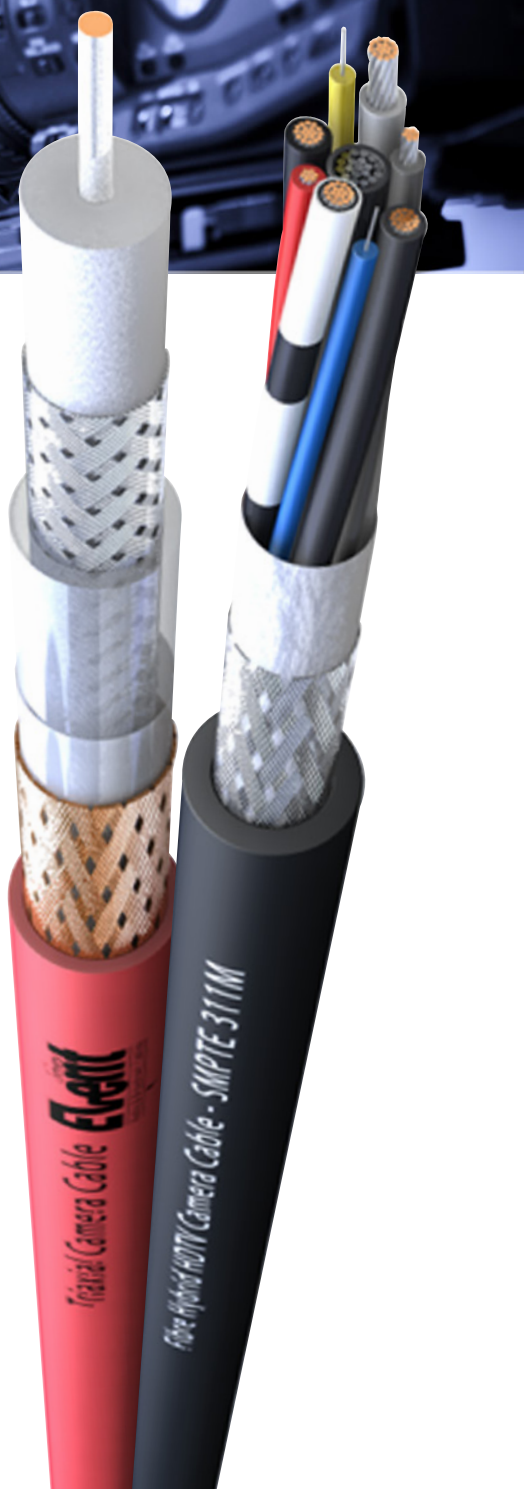
Cable Construction	
Conductor	Stranded Oxygen Free Bare copper
No. Of Cores	*2 (Figure 8)*
Outer Jacket	Polyvinylchloride (PVC)
Outer Jacket Colour	*see table below*
Electrical Characteristics	
Current Rating	*see table below*
Conductor resistance	*see table below*
Thermal Characteristics	
Temperature Range	*static* -30˚C up to +70˚C
	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	0.22mm² (7/0.2mm)	1.3 x 3.0	1.0	84	grey with black polarity stripe
83067917	4702-110	0.22mm² (7/0.2mm)	1.3 x 3.0	1.0	84	black with white polarity stripe
83067918	4702-101	0.22mm² (7/0.2mm)	1.3 x 3.0	1.0	84	white with black polarity stripe
83067919	41302-51	0.40 mm² (13/0.2mm)	2.0 x 4.3	2.5	41	grey with black polarity stripe
83067920	41302-101	0.40 mm² (13/0.2mm)	2.0 x 4.3	2.5	41	white with black polarity stripe
83067921	41302-10	0.40 mm² (13/0.2mm)	2.0 x 4.3	2.5	41	white with polarity rib
83067922	42602-51	0.81 mm² (26/0.2mm)	2.5 x 5.0	6.0	23	grey with black polarity stripe
83067923	42602-101	0.81 mm² (26/0.2mm)	2.5 x 5.0	6.0	23	white with black polarity stripe
83067924	44202-110	1.32 mm² (42/0.2mm)	2.8 x 5.5	15	13.17	black with white polarity stripe
83067925	44202-101	1.32 mm² (42/0.2mm)	2.8 x 5.5	15	13.17	white with black polarity stripe
83067926	47902-110	2.50 mm² (79/0.2mm)	3.5 x 7.5	60	7.98	black with white polarity stripe
83067927	47902-101	2.50 mm² (79/0.2mm)	3.5 x 7.5	60	7.98	white with black polarity stripe

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

Conductor
Stranded or Solid Silver plated copper wire

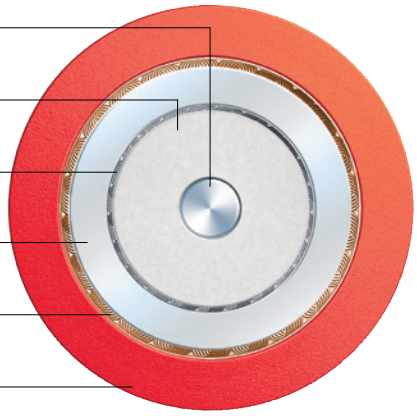
Insulation/Dielectric
Foamed Polyethylene

Shield 1)
Silver plated copper braid

Inner Jacket
Solid Polyethylene with tape overlapped

Shield 2)
Bare copper braid

Outer Jacket
PVC, PUR or PUR Bland



Application

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.

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 GΩ/km	> 10 GΩ/km
Insulation resistance**	> 10 GΩ/km	> 10 GΩ/km
Impedance (200 MHz)	75 ± 1.5 Ω	75 ± 1.5 Ω
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

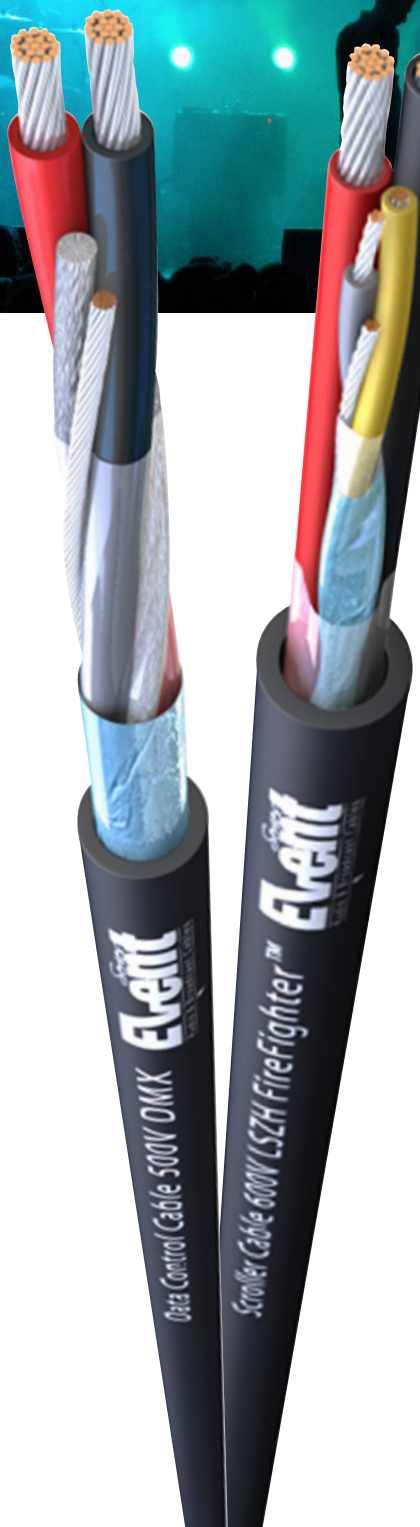
Fibre Hybrid HDTV Camera Cable – SMPTE 311M 83067955

Mechanical and Thermal Characteristics	
Min. bending radius	Dynamic - 15 x Ø
	Static - 10 x Ø
Temperature Range	Storage, -40˚C up to +75˚C
	Operation, -30˚C up to +60˚C
	Installation, -30˚C up to +60˚C
Tensile Strength (approx.)	750 N
Weight (approx.)	116 kg/km
Electrical Characteristics	
Auxiliary Conductors AWG20 (4 x 0.6mm²)	
DC resistance	≤ 35.3 Ω/km
Loop resistance	≤ 43 Ω/km
Insulation resistance	≥ 104 MΩ*km
Test voltage	1750 VAC rms
Operating voltage	≤ 300 VAC rms
Signal Conductors AWG24 (2 x 0.22 mm²)	
DC resistance	≤ 97.5 Ω/km
Loop resistance	≤ 184 Ω/km
Insulation 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 Conductors (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 µm ± 1 µm
Cladding diameter	diameter 125 µm ± 1 µm
Concentricity error	≤ 1 µm
Coating material	UV-cross-linked Acrylate, diameter 245 µm
Buffer material	PA + Silicon layer, Ø 0.9 µm ± 0.05 µm
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, Ø 5.50 mm apprx.
Tape:	Woven None Woven
Braid:	Tinned copper braid, 0.10mm - 80% coverage (nom.)
Outer Jacket:	Polyurethane (PUR), 1.50 ± 0.10mm thickness
Outer Jacket Diameter:	9.2mm (approx.)
Colour:	Black


Camera Cable
Camera Cable
Camera Cable

DMX Data & Scroller Cable



Event Series™ DMX cables have been produced according to the requirements of DMX512-A and are RS-485 based communications protocol that is most commonly used to control stage lighting and effects.
They are available in standard black or red with a Flame Retardant Low Smoke (FRLS) sheath in single pair or FireFighter™ LSZH single or two pair and the single pair portable version as DMX 512 P.

We have also engineered a composite cable which uses a smaller DMX cable with 2 power cores. This vesatile product can carry power & data to your scrollers and has a FireFighter™ LSZH sheath. It also has a tray rated voltage of 600v .

Characteristics :

- Overall Screened
- Available in Black or Red
- Single or 2 pair variants
- in acc. with DMX512-A & RS-485
- 500/600V rated for tray applications

DMX Data Control Cable 500 V

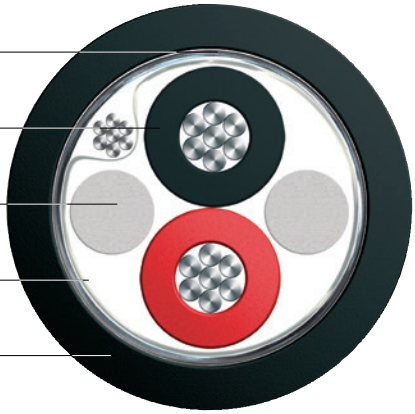
Conductor
Tinned copper wire, 16 x 0.20mm (0.5mm²)

Insulation
Foam polyethylene. Ø 1.8 ± 0.5mm

Drain wire
Tinned copper wire, 16 x 0.20mm (0.5mm²)

Screen
Aluminium/polyester tape. (Alu. inside)

Outer Jacket
Flame retardant Low Smoke or TPE (for single pair only)



Application

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.

Electrical Characteristics	
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˚C up to +80˚C
Weight	34 kg/km

Miltronic Part Number	Part Number	No. Of Pairs	Type	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.

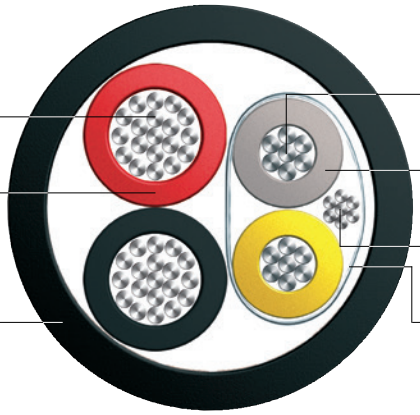
Scroller Power and Data Cable 600v LSZH FireFighter™

Core Construction

Conductor
Tinned copper wire, 19x0.30mm

Insulation
Solid polyethylene. Ø 2.20 ± 0.5mm

Outer Jacket
LSZH FireFighter™



Screened Pair Construction

Conductor
Tinned copper wire, 7x0.20mm

Insulation
Solid polyethylene. Ø 1.25 ± 0.5mm

Drain wire
Tinned copper wire, 7x0.20mm

Screen
Aluminium/polyester tape. (Alu. inside)

Application

This 50005031 scroller cable carries both power and data to your scrollers. The data cable satisfies the requirementsof DMX 512. It has a tray rated voltage of 600v and is Low Smoke Zero Halogen

Thermal Characteristics

Service Temperature	*static* -20˚C up to +80˚C
	install. -5˚C up to +80˚C

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


Data Control Cable 500V OMX

Video Cables

EventSeries™ video coaxials are available in the very well etablished BBC designs where analogue cables are specified.

Where digital cables are specified the EventSeries™ HD range can be used. These are smaller, lighter and a more cost effective solution than the traditional PSF types and can also be used for analogue applications.

RGB style multicores and SVHS cables also form part of the EventSeries™

- PSF
- HD600 range
- Belden precision video
- RGB
- SVHS

75 Ω Low Loss Video Coax Cables Broadcast 2 & 3

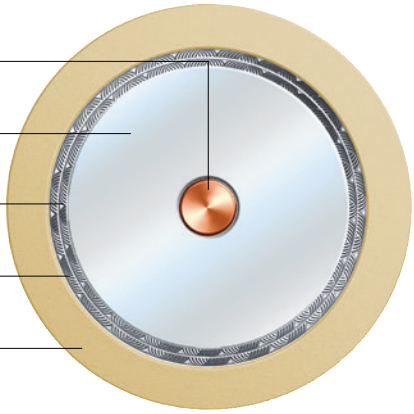
Conductor
Solid bare copper wire

Insulation/Dielectric
Solid Polyethylene

Shield 1)
Tinned copper braid

Shield 2)
Tinned copper braid

Outer Jacket
Polyvinylchloride (PVC) or LSZH FireFighter™



Application

EventSeries™ Analogue Video Coaxials are manufactured in accordance with BBC style PSF 1/3 and 1/2

Electrical Characteristics

		VID1/2	VID1/3
Impedance		75 Ω	75 Ω
Capacitance		69 pF/m	68.5 pF/m
Velocity ratio (1-10 MHz)		0.65	0.65
Velocity ratio (200 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
Attenuation	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
	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™

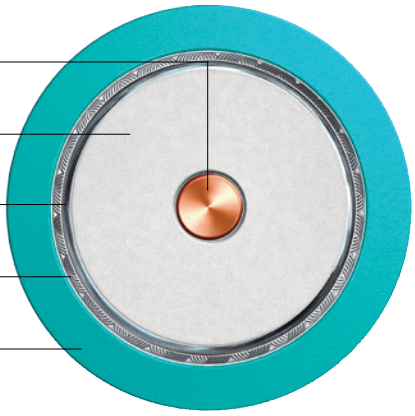
Conductor
Solid Bare Copper Wire, 1x0.65mm

Insulation/Dielectric
Foam Polyolefin

Screen
Aluminium/polyester

Shield
Tinned copper braid

Outer Jacket
LSZH FireFighter™ IEC60332-1



Application

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.

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
Attenuation	1 MHz	1.03 dB/100m
	10 MHz	3.26 dB/100m
	135 MHz	11.82 dB/100m
	180 MHz	13.70 dB/100m
	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™

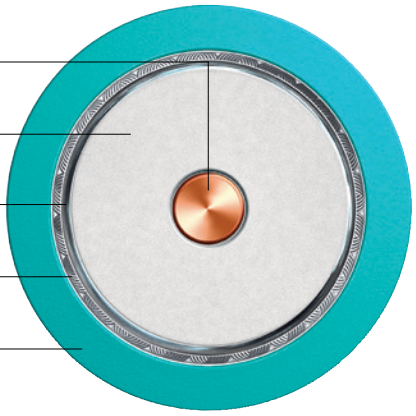
Conductor
Solid Bare Copper Wire, 1 x 0.8mm

Insulation/Dielectric
Foam Polyethylene, Ø 3.7mm

Screen
Aluminium/polyester

Shield
Tinned copper braid, 95% coverage

Outer Jacket
LSZH FireFighter™ IEC60332-1, Ø 5.90mm



Application

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	HD720
270 Mb/s	135 MHz	Component Video	336*
360 Mb/s	180 MHz	Component widescreen	290*
540 Mb/s	270 MHz	Component widescreen	237*
720 Mb/s	360 MHz	Component widescreen	205*
1.44 Gb/s	720 MHz	HDTV	120**

* Maximum Length= 30dB Loss
* * Maximum Length= 20dB Loss
BIT error rate (BER) can vary substantialy as maximum distance is approached, we suggest only to use 90% of the recommended distance.

Electrical Characteristics

Characteristic Impedance		75 ± 1 Ω
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
Return Loss 300-3000 MHz		≥ 22 dB
Attenuation	1 MHz	0.90 dB/100m
	10 MHz	2.70 dB/100m
	135 MHz	8.45 dB/100m
	180 MHz	10.21 dB/100m
	270 MHz	12.50 dB/100m
	360 MHz	14.61 dB/100m
	800 MHz	22.80 dB/100m
	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™

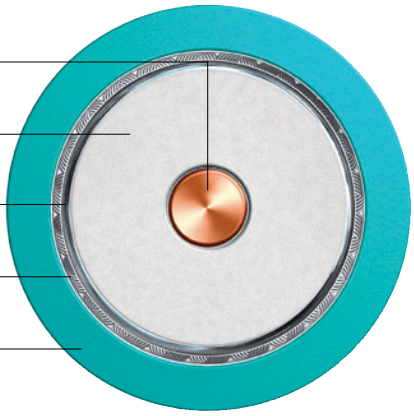
Conductor
Solid Bare Copper Wire, 1 x 1.0mm

Insulation/Dielectric
Foam Polyethylene, Ø 4.8mm

Screen
Aluminium/polyester

Shield
Tinned copper braid, 95% coverage

Outer Jacket
LSZH FireFighter™ IEC60332-1, Ø 6.80mm



Application

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	HD1000
270 Mb/s	135 MHz	Component Video	404*
360 Mb/s	180 MHz	Component widescreen	349*
540 Mb/s	270 MHz	Component widescreen	284*
720 Mb/s	360 MHz	Component widescreen	247*
1.44 Gb/s	720 MHz	HDTV	140**
	1 GHz		99**

* Maximum Length= 30dB Loss
* * Maximum Length= 20dB Loss
BIT error rate (BER) can vary substantialy as maximum distance is approached, we suggest only to use 90% of the recommended distance.

Electrical Characteristics

Characteristic Impedance		75 ± 1 Ω
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
Return Loss 300-3000 MHz		≥ 22 dB
Attenuation	1 MHz	0.64 dB/100m
	10 MHz	2.02 dB/100m
	135 MHz	7.30 dB/100m
	180 MHz	8.45 dB/100m
	270 MHz	10.15 dB/100m
	360 MHz	11.30 dB/100m
	800 MHz	18.36 dB/100m
	1000 MHz	19.50 dB/100m
	1500 MHz	25.30 dB/100m
	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

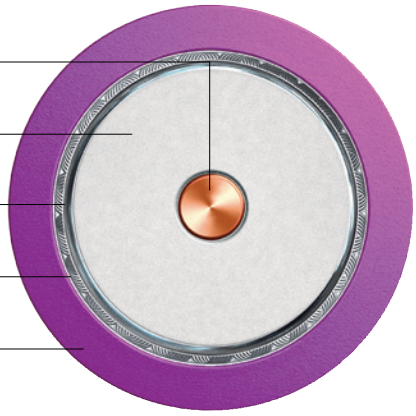
Conductor
Solid bare copper wire, 18awg (RG Type 6/U)

Insulation/Dielectric
Gas-injected HDPE -High Density Polyethylene , Ø 4.57

Screen
Duofoil®, 100% coverage, Ø 5.4mm

Braid
Tinned Copper, 95% coverage

Outer Jacket
FRNC (LSZH) Ø 7.26mm



Application

Precision video cables are used in critical analog and digital video circuits and high quality
applications such as live broadcast (HDTV/SDI) in network studios and pre- or post-production
facilities.

Mechanical Characteristics

Temp. range - storage/operation	-30°C To +70°C
Temp. range - installation	-5°C To +70°C
Min. bending radius	10 x Ø
Nom. cable Weight	59.6 kg/km
Flame resistance:	CEI 20-22 III (acc. EN50266-2-4, IEC 60332-3-24 cat. C)
	CEI 20-37/2/5/7 (acc. EN50267-2-1, 50268-2, NES 713)

Electrical Characteristics

Nom. inner conductor D.C.R @ 20 °C	21 Ohm/km	
Nom. outer conductor D.C.R @ 20 °C	9 Ohm/km	
Return loss at 5-850 MHz	≥ 23 dB	
Return loss at 851-3000 MHz	≥ 21 dB	
Attenuation	1 MHz	0.8 dB/100m
	3.58 MHz	1.4 dB/100m
	5 MHz	2.3 dB/100m
	71.5 MHz	5.2 dB/100m
	135 MHz	6.9 dB/100m
	270 MHz	9.7 dB/100m
	360 MHz	11.2 dB/100m
	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

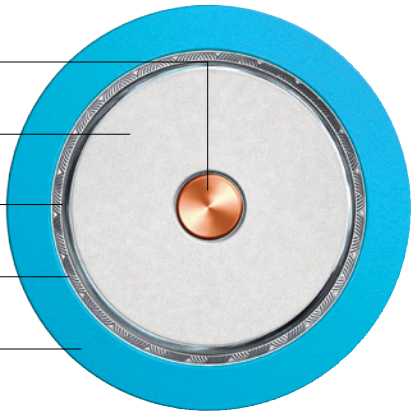
Conductor
Solid bare copper wire, 20awg

Insulation/Dielectric
Gas-injected FHDPE - Foam High Density Polyethylene Ø 3.683

Screen
Duofoil® Tape Aluminum Foil-Polyester Tape-Aluminum Foil 100% coverage

Braid
Tinned copper, 95% coverage

Outer Jacket
Polyvinylchloride (PVC), Ø 5.9mm



Mechanical Characteristics	
Operating Temperature Range	-30°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	46.134 Kg/Km
Max. Recommended Pulling Tension	209.065 N
Min. Bend Radius (Install)/Minor Axis	63.500 mm

Electrical Characteristics	
Nom. Characteristic Impedance	75 Ohm
Nom. Inductance	0.351067 µH/m
Nom. Capacitance (cond./shield)	53.4803 pF/m
Nom. Velocity of Propagation	83%
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
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 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms

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

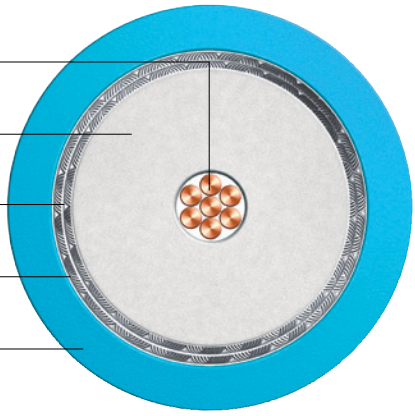
Conductor
Stranded bare compacted copper, 22awg

Insulation/Dielectric
Gas-injected FHDPE - Foam High Density Polyethylene Ø 3.683

Braid 1°
Tinned Copper, 94% coverage, Ø 4.2418

Braid 2°
Tinned Copper, 94% coverage, Ø 4.8006

Outer Jacket
Polyvinylchloride (PVC), Ø 6.10mm



Mechanical Characteristics	
Operating Temperature Range	-35°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	61.016 Kg/Km
Max. Recommended Pulling Tension	400.338 N
Min. Bend Radius (Install)/Minor Axis	60.960 mm

Electrical Characteristics	
Nom. Characteristic Impedance	75 Ohm
Nom. Inductance	0.308414 µH/m
Nom. Capacitance (cond./shield)	55.777 pF/m
Nom. Velocity of Propagation	80%
Nom. Delay	4.2653 ns/m
Nom. Conductor DC Resistance	40.0282 Ohm/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.

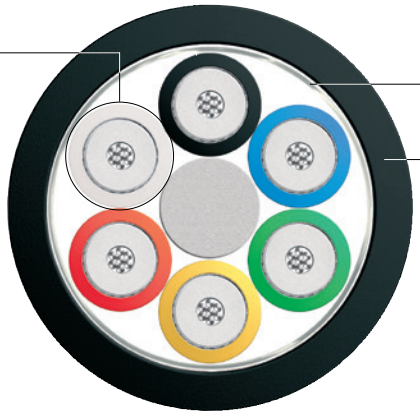
Multicore Miniature Cable "RGB" Style LSZH FireFighter™

Pair Construction
Stranded tinned copper, 7/0.12mm

Insulation / Dielectric
Foam Polyethylene

Braid
Tinned copper braid, 98% coverage

Jacket
LSZH FireFighter™, Black



Tape
Overall wrapping tape

Outer Jacket
LSZH FireFighter™ IEC 60332-1, Black

Application
This range of cable is intended for high performance video signal distribution including RGB, Sync etc.

Electrical Characteristics	
Impedance	75 Ω
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

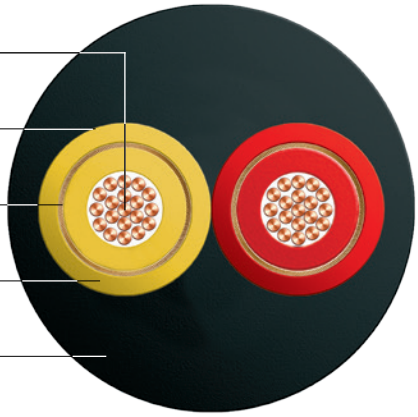
Conductor
Bare copper, 10/0.125mm

Insulation
PVC

Screen
Bare copper LAP screen, 100% coverage

Core Jacket
PVC, Red / Yellow cores, Ø 2.0mm

Outer Jacket
Black PVC -Rubber, Ø 5.60mm



Application
The EventSeries™ S-VHS cables is a two core 75Ω coaxial for use with 4 pin mini-DIN connectors as used in S-Video Y/C connections. May also be suitable for unbalanced audio connections.

Technical Characteristics	
Resistance	141 Ω/km
Capacitance	330 pF/m
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.

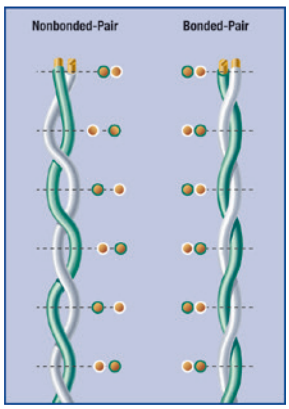
CatSnake Category 5e cables for use in patching Ethernet or digital audio/video formats utilizing Cat 5e-type cable. Because these Category 5e UTP cables are extremely rugged and utilize Bonded-Pair design, they are able to be used in high traffic areas in a broadcast studio or in any type of tactical, 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, 0harsh 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.

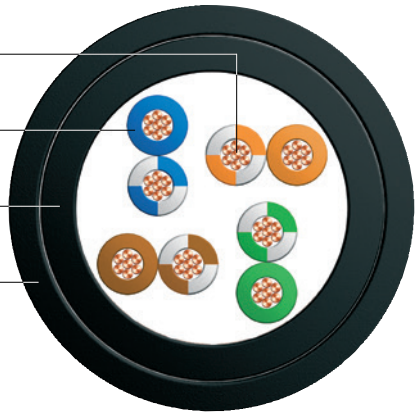
Belden 1305A Multi-Conductor UpJacketed CatSnake®

Conductor
Stranded bare copper wire, 24awg (7x32)

Insulation
Polyolefin, Ø 1.092mm

Inner Jacket
Polyvinylchloride (PVC), 0.54 mm RT, Ø 6.0 mm

Outer Jacket
Polyvinylchloride (PVC), Ø 7.8 mm



Application

24AWG Bonded-Pairs stranded (7x32) bare copper conductors, polyolefin insulation, inner and outer PVC.
Suitable for Field Deployable Cat 5e Patch, CobraNet, eSnake, Ethersound, Digital Audio over Ethernet.

Mechanical & Thermal Characteristics

Operating Temperature range	-20˚C up to +60˚C
Bulk Cable Weight	56.552 kg/km
Max. recommended Pulling Tension	195.721 N

Electrical 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
Max. Conductor DC Resistance	9 Ohm/100m
Max. Operating Voltage - UL	300 V rms
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


Multi-Conductor UpJacketed CatSnake®

Lighting Control Cable

This range of control cables have been designed for use with "Socapex"* style 19pin lighting connectors. The extra supple compounds used in the "FHL" 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

Characteristics

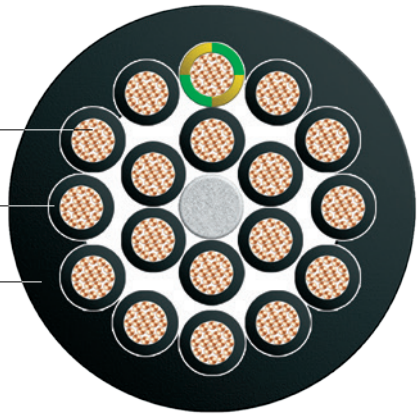
- Extra supple compounds
- Superior Flexibility
- Good mechanical resistance
- Low Smoke Zero Halogen

FHL Lighting Control Cable

Conductor
Stranded bare copper wire

Insulation
Pyromeric Technopolemero

Outer Jacket
Technopolemero Black Matt



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	1.5mm²	< 13.3 Ω/km
	2.5mm²	< 7.98 Ω/km
Insulation resistance		200 MΩ x km
Max. Working voltage		300/500 V
Test voltage		> 3 kV

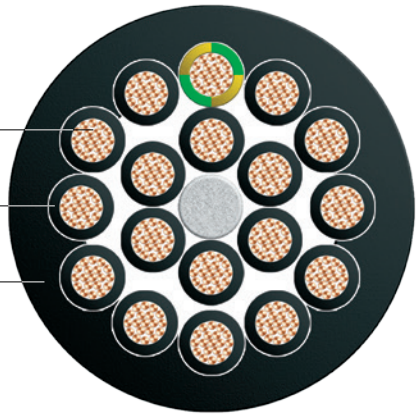
Formation (cores x mm²)	Miltronic Part Number	Part Number	Stranding (mm)	Ø - Outer Jacket (mm)	Weight (kg/km)
3 x 1.5	83067941	FHL 315	30/0.25	8.3	113
3 x 2.5	83067942	FHL 325	50/0.25	10.0	170
18 x 1.5	83067943	FHL 1815	30/0.25	16.95	461
18 x 2.5	83067944	FHL 1825	50/0.25	18.80	683

ZHL Lighting Control Cable LSZH FireFighter™

Conductor
Stranded bare copper wire

Insulation
Pyromeric Technopolemero

Outer Jacket
Pyromeric Technopolemero LSZH Black Matt HD 21.14.51 Annex B TM7 TS EN 60332-1



Application

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.

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	1.5mm²	< 13.3 Ω/km
	2.5mm²	< 7.98 Ω/km
Insulation resistance		200 MΩ x km
Max. Working voltage		300/500 V
Test voltage		> 3 kV

Fire Behaviour

Degree of acidity of gases TS EN 50267-2-3 self extinguishing acc. to IEC 60332-3

Amount of halogen acid gas TS EN 50267-2-1 Flame resistant acc. to IEC 60332-3

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	0.75mm^2, (24/0.20mm)
No. of Cores	7
Outer Jacket diameter	6.8mm
Electrical Characteristics	
Nom. Current Rating	14.0 Amps

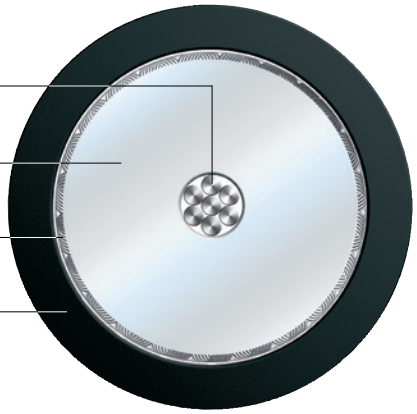
75 Ω Miniature Coaxial Cable RG179

Inner Conductor
Stranded tinned copper, 7x0.12mm

Dielectric
Foam Polyethylene, Ø 1.60 ± 0.05mm

Braid
Tinned Copper Braid, 0.10mm, 98% coverage

Outer Jacket
LSZH FireFighter™, Black, Ø 2.60 ± 0.10mm



Mechanical and Thermal Characteristics	
Temperature Range (static)	-20˚C up to +80˚C
Temperature Range (Installation)	-5˚C up to +80˚C
Weight (approx.)	13 kg/km

Electrical Characteristics		
Conductor DC resistance		239.5 Ω/km
Capacitance		60 pF/m
Impedance		75 Ω
Attenuation	50 MHz	13.30 dB/100m
	100 MHz	20.40 dB/100m
	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

Tight coating

900 ± 50 µm tight buffered optical fibre, to IEC 60304

Strength member

Glass fibre yarns (swellable for longitudinal watertightness)

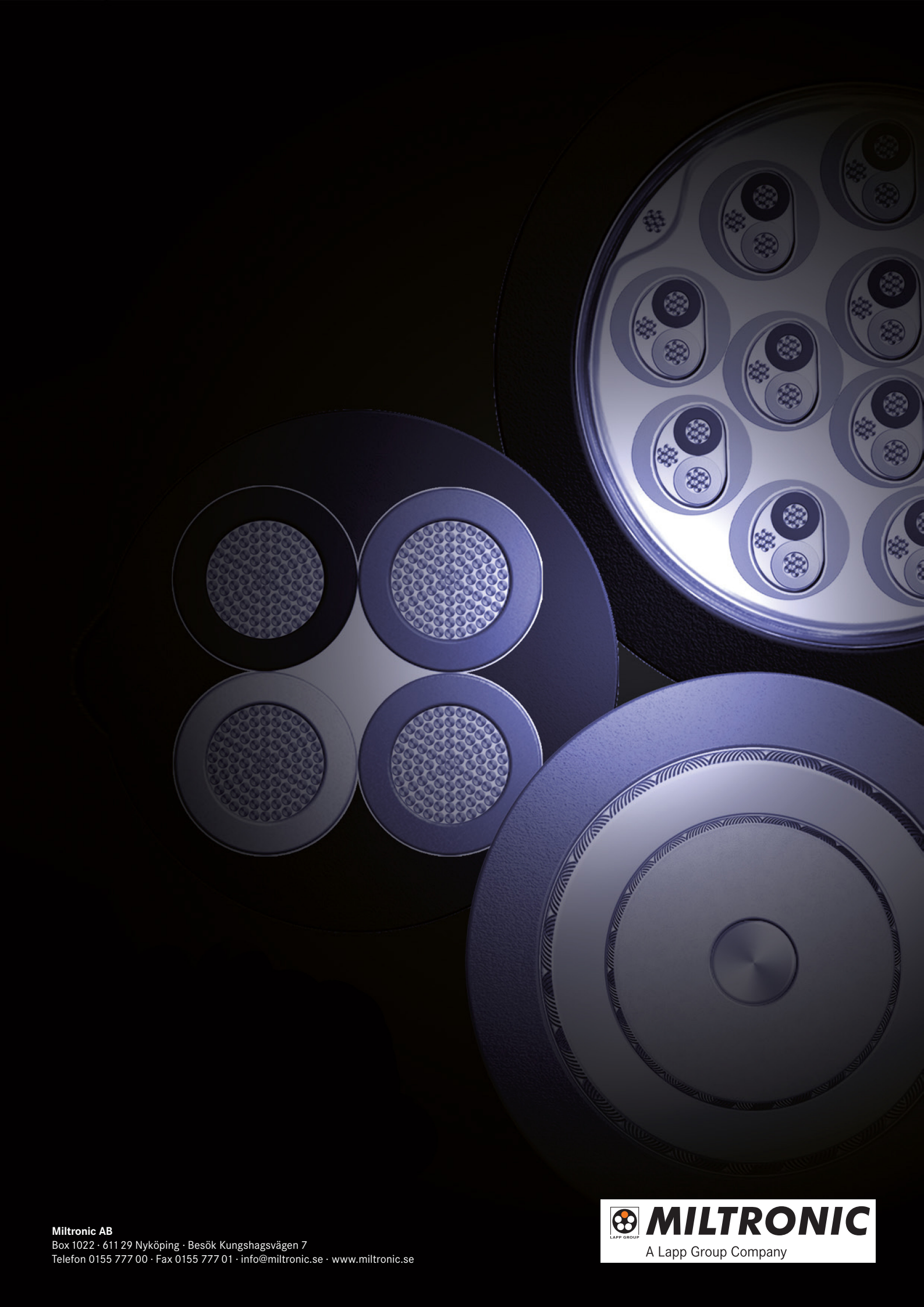
Outer Jacket

LSZH FireFighter™

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 OS1	4	5.5 ± 0.5	1000	Black
83067967	108084TB-01	9/125 OS1	8	6.5 ± 0.5	1400	Black
83067968	108124TB-01	9/125 OS1	12	7.3 ± 0.5	1600	Black
83067969	108164TB-01	9/125 OS1	16	8.0 ± 0.5	1800	Black
83067970	108244TB-01	9/125 OS1	24	10.4 ± 0.5	2900	Black



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