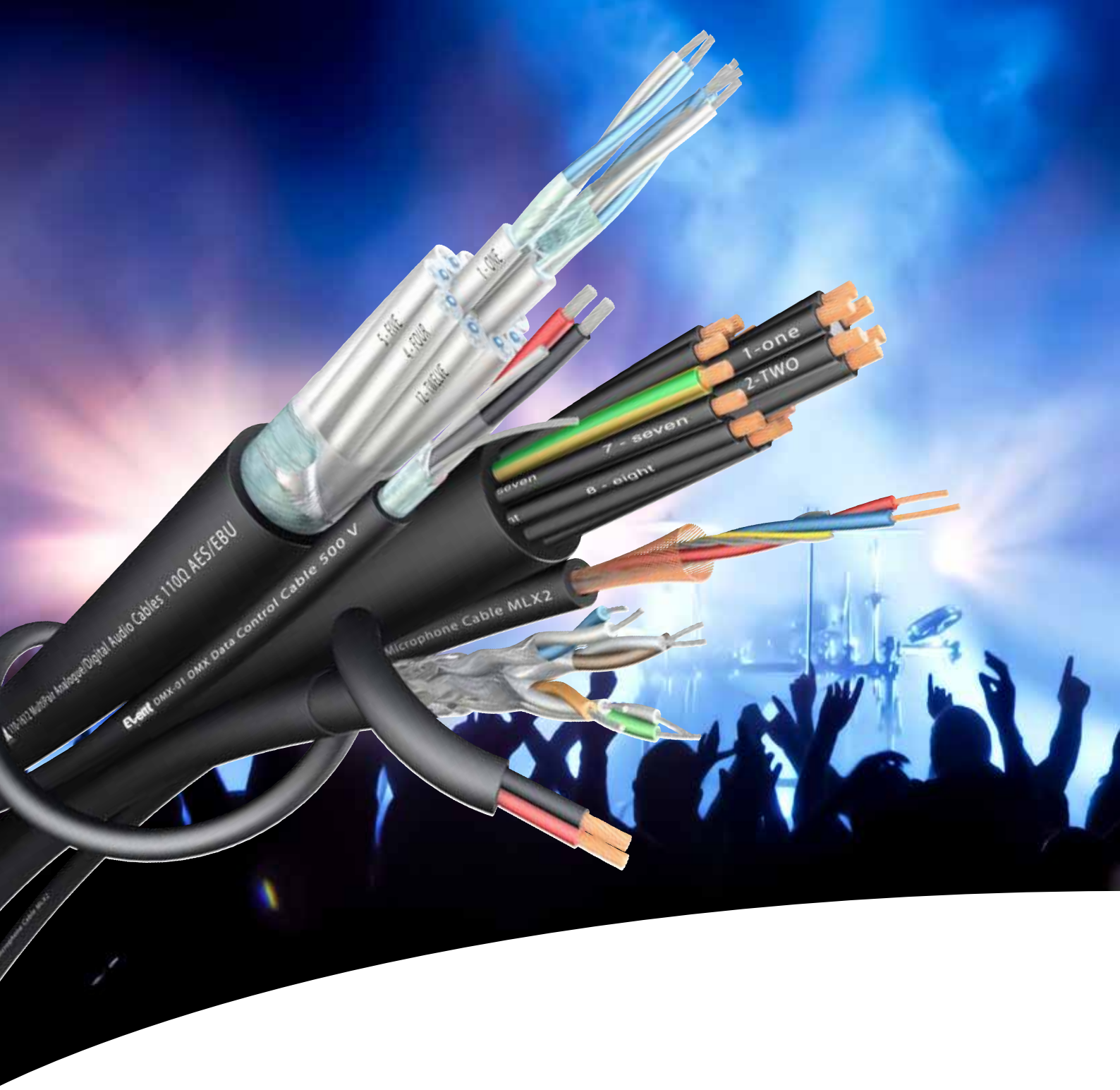

EventSeries®

Cables For Audio, Broadcast and Lighting

Series Event
Audio & Broadcast Cables

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. As such, this publication should be used as a guide only. Exact details can be confirmed at point of enquiry.

Images are for illustrative purposes only. Stranding & proportion may vary.

EventSeries®
Audio & Broadcast Cables

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.

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Audio Cables

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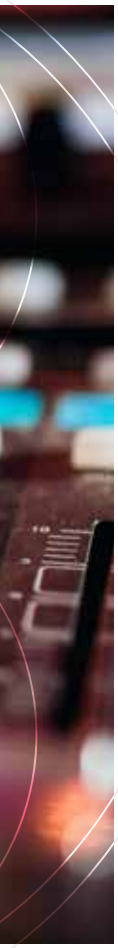

4-25

Included within the Event Series® is our audio single pair, multipair, single quad and multiquad cables which are available in soft pliable materials for touring applications or FireFighter® Low Smoke Zero Halogen.

The single and multipair cables (110Series) have a characteristic impedance of 110 Ohm as standard making it suitable for digital sound transmission according to AES3 standards as well as DMX signals. The foil screen can easily be removed with pair sheath for easier termination.

Single Pair Digital Wiring Installation Cable AES-EBU (TPM)

Event® install

Application

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 signals.

Cable Design

Conductor ..... Oxygen Free Tinned Copper (7 x 0,20mm) 0,22m²
Insulation ..... Foam Polyethylene (PE)
Pair ..... 2 cores twisted to a pair (Blue / White)
Drain Wire ..... Stranded tinned copper
Screen ..... Overall Aluminium/polyester tape (Aluminium Inside) *Screen bonded to Outer Jacket*
Outer Jacket ..... TPM, Black

Characteristics

- For fixed wiring of digital equipment and patch boards
- 110Ω suitable for digital sound transmission acc. to AES3 and DMX signals
- EasyStrip bonded screen for fast termination

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Single Pair Digital Wiring Installation Cable AES-EBU (TPM)

Technical Data

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
Attenuation (3 MHz)		3,9	dB/100m
Attenuation (10 MHz)		6,9	dB/100m

Specification

Part Number	Overall Diameter [mm] nom.	Colour
110-1601-01	3,60	Black

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Single Pair Digital Wiring Installation Cable AES-EBU (LSZH)

Dca

Event® install

Application

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.

Cable Design

Conductor ..... Oxygen Free Tinned Copper (7 x 0,20mm) 0,22m^2

Insulation ..... Foam Polyethylene (PE)

Pair ..... 2 cores twisted to a pair (Blue / White)

Drain Wire ..... Stranded tinned copper

Screen ..... Overall Aluminium/polyester tape (Alu. Inside) *Screen bonded to Outer Jacket*

Outer Jacket ..... LSZH FireFighter®

Characteristics

- For fixed wiring of digital equipment and patch boards
- 110Ω suitable for digital sound transmission acc. to AES3 and DMX signals
- EasyStrip bonded screen for fast termination
- Flame Retaradent acc. to IEC 60332-1
- Halogen Free acc. to IEC 60754-1
- Smoke Density acc. to IEC 61034-1
- CPR Class Dca-s1,d1,a1

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Single Pair Digital Wiring Installation Cable AES-EBU (LSZH)

Technical Data

Nom. Capacitance		47	pF/m
Impedance		110	Ω
Conductor Resistance	<	85	Ω/km
Insulation Resistance (nom.)		500	MOhm x km
Attenuation (1 MHz)		2,3	dB/100m
Attenuation (3 MHz)		3,9	dB/100m
Attenuation (10 MHz)		6,9	dB/100m

Specification

Part Number	Overall Diameter [mm]	Colour
110-4601-01	3,50 ± 0,5	Black
110-4601-02	3,50 ± 0,5	Blue
110-4601-03	3,50 ± 0,5	Green
110-4601-04	3,50 ± 0,5	Red
110-4601-05	3,50 ± 0,5	Grey
110-4601-06	3,50 ± 0,5	Yellow
110-4601-08	3,50 ± 0,5	Orange
110-4601-09	3,50 ± 0,5	Violet
110-4601-10	3,50 ± 0,5	White
110-4601-12	3,50 ± 0,5	Brown

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Single Pair Digital Wiring Installation Cable AES-EBU (LSZH)

Dca

Event® install

Application

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.

Cable Design

Conductor .....Oxygen Free Tinned Copper (7 x 0,20mm) 0,22m^2

Insulation .....Foam Polyethylene (PE)

Pair.....2 cores twisted to a pair (Black / Red)

Drain Wire .....Stranded tinned copper

Screen.....Overall Aluminium/polyester tape (Aluminium Inside) *Screen bonded to Outer Jacket*

Outer Jacket.....LSZH FireFighter®

Characteristics

- For fixed wiring of digital equipment and patch boards
- 110Ω suitable for digital sound transmission acc. to AES3 and DMX signals
- EasyStrip bonded screen for fast termination
- Flame Retaradent acc. to IEC 60332-1
- Halogen Free acc. to IEC 60754-1
- Smoke Density acc. to IEC 61034-1
- CPR Class Dca-s1,d1,a1

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Single Pair Digital Wiring Installation Cable AES-EBU (LSZH)

Technical Data

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
Attenuation (3 MHz)		3,9	dB/100m
Attenuation (10 MHz)		6,9	dB/100m

Specification

Part Number	Overall Diameter [mm]	Colour
110-4501-01	3,50 ± 0,5	Black

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Heavy Duty Data Control
Installation Cable LSZH FireFighter 110ohm AES-EBU <RS485> 600 V

Dca

Event® install

Application

110-4101 is a Heavy Duty versions of our 110-4601 cable ,ideal for fixes wiring installations for analogue and digital applications designed based on RS-485 based communications protocol, suitable for AES/EBU digital audio installations . The Low Smoke Zero Halogen sheath makes this an ideal choice for installations in public buildings including theatres and auditoriums.

Cable Design

Insulation.....Foam Polyethylene Ø 1,8 ± 0,05 mm

Pair.....2 wires twisted to a pair

No. of Pairs.....1 Pair : Black, Red

Drain Wire.....Stranded Tinned Copper (16 x 0,20 mm)

Shield.....Aluminium/polyester tape. (Aluminium inside)

Outer Jacket.....LSZH FireFighter®

Characteristics

- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034
- CPR Class Dca-s2,d2,a1

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Heavy Duty Data Control

Installation Cable LSZH FireFighter 110ohm AES-EBU <RS485> 600 V

Technical Data

Impedance	110±5	Ω
Tray Rated Voltage	500	V
Test Voltage	2000	V
Service Temperature (static)	-20°C to +80	°C
Service Temperature (mobile)	-5°C to +80	°C
Weight	34	kg/km

Specification

Part Number	No. of Pairs	Type	Overall Diameter [mm]	Min. Bending Radius [mm]	Colour
110-4101	1	LSZH	5,75 ± 0,3	60	Black

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Multi Pair Analogue/Digital Audio Cables 110Ω AES/EBU (TPM)

Event® **tour**

Event® **studio**

Application

Event® 110Series Pre-Jacketed digital/analogue audio multi core, individually foil shielded and overall foil shield. The individual elements of this multi core has the same low loss characteristics as our 110-1601 single pair product which delivers real 110Ω AES/EBU performance. The foil screen can easily be removed with pair sheath for easier termination. 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

Cable Design

Shielded Pair

Conductor	Oxygen Free Tinned Copper (7 x 0,20mm) 0,22m²
Insulation	Foam Polyethylene (PE) with skin
Pair	2 cores twisted to a pair (Blue / White)
Drain Wire	Stranded tinned copper
Screen	Overall Aluminium/polyester tape (Aluminium Inside)
Sheath	TPM Ø 3,50 mm

Core

Assembly	Multiple pair counts layed up with fillers where needed.
Tape	Polyester tape wrapped around pairs
Drain Wire	Stranded tinned copper
Screen	Overall Aluminium/polyester tape (Aluminium Inside)

Outer Jacket	TPM Ø see table
Colour	Black

Characteristics

- Profesional Audio Interconnect
- 110Ω AES\EBU performance
- Flame retardant acc. To IEC 60332-2-1

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Multi Pair Analogue/Digital Audio Cables 110Ω AES/EBU (TPM)

Technical Data

Max. Working Voltage	250 V
Test Voltage	1500 V ac/1 min.
Capacitance (Conductor/Shield) max.	74,35 pF/m
Capacitance (Core/Core)	47 pF/m
Characteristic Impedance	110 Ω
Nom. Attenuation - 10 MHz	14,9 dB/100m
Conductor Resistance	< 88 Ω/km
Insulation Resistance	> 500 MΩ/km
Min. Bending Radius	7,5 x Ø
Working Temperature	-30°C up to +85°C

Specification

Part Number	No. of Pairs	Overall Diameter [mm ± 10%]	Weight [kg/km]
110-1602	2	9,2	92
110-1604	4	10,8	145
110-1608	8	14,5	207
110-1612	12	17,5	308
110-1616	16	19,2	388
110-1624	24	24,0	577
110-1632	32	23,3	732

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Install Grade MultiPair Analogue/Digital Audio Cables

110Ω AES/EBU LSZH FireFighter®

Cca

Event® install

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 110-1601 single pair product which delivers real 110Ω AES/EBU performance. The foil screen can easily be removed with pair sheath for easier termination. The finished product is ideal for use in public buildings where LSZH cables are specified.

Cable Design

Shielded Pair

Conductor	Oxygen Free Tinned Copper (7 x 0,20mm) 0,22m²
Insulation	Foam Polyethylene (PE) with skin
Pair	2 cores twisted to a pair (Blue / White)
Drain Wire	Stranded tinned copper
Screen	Overall Aluminium/polyester tape (Aluminium Inside)
Sheath	LSZH FireFighter® Ø 3,50 mm

Core

Assembly	Multiple pair counts layed up with fillers where needed.
Tape	Polyester tape wrapped around pairs
Drain Wire	Stranded tinned copper
Screen	Overall Aluminium/polyester tape (Aluminium Inside)

Outer Jacket	LSZH FireFighter®
Colour	Black

Characteristics

- For use in stage box systems or fixed installation
- 110Ω AES\EBU performance
- CPR Euroclass : Cca,s1b,d1,a1
- Flame Retardent acc. to IEC 60332-1
- Halogen Free acc. to IEC 60754-1
- Smoke Density acc. to IEC 61034-1

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Install Grade MultiPair Analogue/Digital Audio Cables

110Ω AES/EBU LSZH FireFighter®

Technical Data

Max. Working Voltage	250 V
Test Voltage	1500 V ac/1 min.
Capacitance (Conductor/Shield) max.	74,35 pF/m
Capacitance (Core/Core)	47 pF/m
Characteristic Impedance	110 Ω
Nom. Attenuation - 10 MHz	14,9 dB/100m
Conductor Resistance	< 88 Ω/km
Insulation Resistance	> 500 MΩ/km
Min. Bending Radius	7,5 x Ø
Working Temperature	-30°C up to +85°C

Specification

Part Number	No, of Pairs	Overall Diameter [mm ± 10%]	Weight [kg/km]
110-i4602	2	9,1	92
110-i4604	4	10,7	145
110-i4608	8	14,0	207
110-i4612	12	17,1	308
110-i4616	16	19,1	388
110-i4624	24	25,6	577
110-i4632	32	26,2	732

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MultiPair Analogue/Digital 110Ω AES/EBU Installation Cable LSZH FireFighter®

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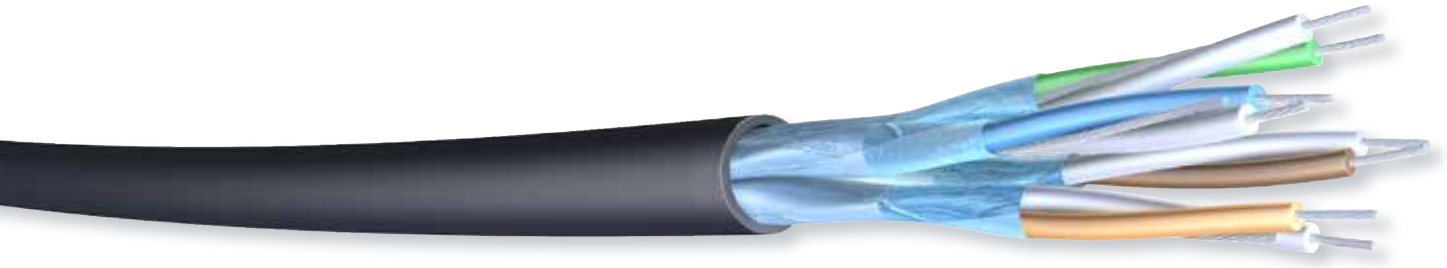

Application

Event® 110Series digitla/analogue installation grade audio multicore. This version of the 110Series is designed for "installation" only. The pairs are individually screened with additional polyester tape to prevent shorting.

Cable Design

Conductor .....7/0,2mm tinned copper wire

Insulation .....Polyethylene (PE) Ø 1,60 mm (0,50mm thickness)

Core stranding.....Two insulated conductors twisted together to form a pair

Pair Identification.....Chart 4

Pair Screen.....Each pair aluminium/polyester tape screened (125% overlap) with 7/0,2mm tinned copper drain wire + polyester tape.

Outer Jacket.....LSZH FireFighter®

Electrical Characteristics

Characteristic Impedance	100 ± 10	Ohm
Pair Capacitance (core : core)	41	pF/m
Pair Capacitance (core - core : screen)	102	pF/m
Nominal Velocity Ratio	78	%

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MultiPair Analogue/Digital 110Ω AES/EBU
Installation Cable LSZH FireFighter®

Technical Data

Part Number	No. of Pairs	Ø [mm] ± 0,5	Weight [kg/100m]
110-4202	2	7,0	4,3
110-4204	4	9,0	6,8
110-4208	8	12,2	11,4
110-4212	12	15,0	16,5
110-4216	16	18,0	22,3
110-4224	24	20,6	32,7
110-4232	32	22,0	40,4

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Quad / MultiQuad Audio Installation Cable

Event® install

Application

The 220Series Installation starquad cable is ideal for fixed wiring for professional audio applications. Four conductors are protected from electomagnetic interference with an aluminium polyester foil shield giving 100% shielding ,earthed with a tinned copper drain wire for faster termination. 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.

Cable Design

Shielded Quad

Conductor	Stranded Tinned Copper (7 x 0,20mm) 0,22mm²
Insulation	Polyethylene (PE) Ø 1,30 ± 0,05 mm [0,35mm RT]
Core stranding	Cores twisted to Quad formation
Core Identification	Blue/White/Blue/White
Tape	PET tape wrapped
Drain Wire	-7/0,15mm tinned copper drain wire
Screen	-Aluminium/polyester tape (Aluminium Inside)
Sheath	LSZH FireFighter® Black [0,6mm RT]
Diameter	Ø 4,70 mm ± 10 %

Core

Assembly	Multiple Sub Cables numbered for identification and layed up with fillers where necessary.
Tape	Non-woven tape wrapped
Outer Jacket	LSZH FireFighter®, Black

Characteristics

- Flame Retaradent acc. to IEC 60332-1
- Halogen Free acc. to IEC 60754-1
- Smoke Density acc. to IEC 61034-1

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Quad / MultiQuad Audio Installation Cable

Quad Connections

Quad connections are terminated using two diagonally opposite conductors , each pair forms one transmission path.

For more information please visit "Starquad Wiring"

Electrical Data

Nom. Capacitance core/core	78,74	pF/m nom.
Nom. Capacitance core /screen	154,2	pF/m nom.
Conductor Resistance (max.)	88	Ohm/km max.
Insulation Resistance (nom.)	500	MOhm x km
Velocity of Propagation	66	%
Temperature Rating	-20 to +70	°C
Working Voltage (max.)	300	V
Test Voltage	1200	V AC/1 min.

Specification

Part Number	No. of Quads *[N x 4 x mm²]*	Sub Cable Sheath Thickness Nom. *(mm)*	Outer Jacket Thickness Nom. *(mm)*	Overall Diameter ±10% *(mm)*	Cable Weight Nom. *(kg/km)*
220-4601-01	1 x 4 x 0,22	0,6	0,8	4,70	40
220-4602	2 x 4 x 0,22	0,6	1,30	13,0	140
220-4604	4 x 4 x 0,22	0,6	1,30	14,0	230
220-4608	8 x 4 x 0,22	0,6	1,40	19,1	420

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Installation Starquad ML4/1 LSZH

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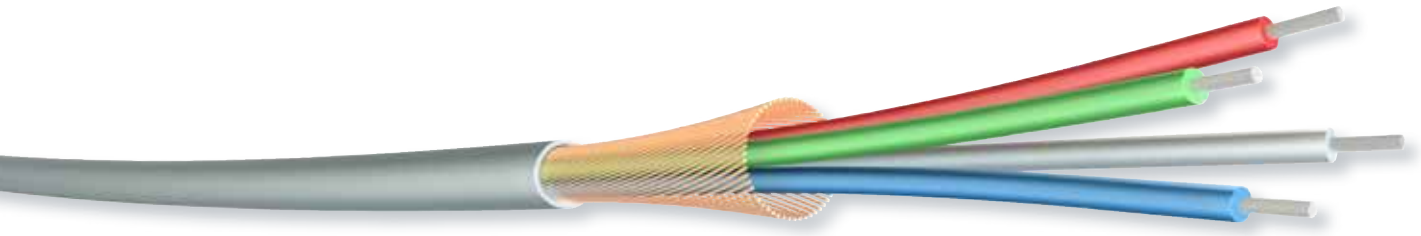

Application

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.

Cable Design

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

Insulation ..... LSZH FireFighter®

No. Of Pairs ..... 2 twisted to Quad formation (Red/Blue/Green/White)

Shield ..... Bare copper spiral screen

Outer Jacket ..... LSZH FireFighter®, Grey

Electrical Characteristics

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

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Installation Starquad ML4/1 LSZH

Specification

Part Number	Overall Diameter [mm]	Colour
ML4/1	4,70	Grey

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Quad / MultiQuad Audio Cables
for Studio and Outside Broadcast Applications

Event® **tour** *Event®* **studio**

Application

Event 220Series is a Pre-Jacketed starquad audio multicore with individually foil shielded quads and overall foil shield. Designed for studio and outside broadcast applications .The tough polyurethane sheath is incredibly durable whilst remaining pliable . The Individual quad jacket Low Smoke Zero Halogen. The outer sheath is made of a special PUR. The single quad has a PUR sheath.

Cable Design

Shielded Quad

Conductor	Oxygen Free Tinned Copper (7 x 0,20mm) 0,22m²
Insulation	Low Loss Polyolefin Alloy
Quad	4 cores twisted to a quad (Blue / Green / Red / White)
Drain Wire	Stranded tinned copper
Screen	Aluminium/polyester tape (Alu. Inside)
	Screen bonded to Sheath
Sheath	LSZH FireFighter® compound Ø 3,70 mm
Identification	British Racing Green with white numerical identification

Core

Assembly	Multiple quad counts layed up with fillers where needed.
Tape	Polyester tape wrapped around pairs
Drain Wire	Stranded tinned copper
Screen	Overall Aluminium/polyester tape (Aluminium Inside)
Outer Jacket	PUR compound Ø see table
Colour	British Racing Green

Characteristics

- 110Ω AES\EBU performance
- Flame Retaradent acc. to IEC 60332-1
- Halogen Free acc. to IEC 60754-1

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Quad / MultiQuad Audio Cables
for Studio and Outside Broadcast Applications

Technical Data

Max. Working Voltage		250	V
Test Voltage		1500	V ac/1 min.
Conductor Resistance	<	88	Ω/km
Insulation Resistance	>	500	MΩ/km
Min. Bending Radius		7,5	x Ø
Working Temperature		-30°C up to +85°C	

Specification

Part Number	No, of Quads	Overall Diameter [mm]	Weight [kg/km]
220-6601	1	3,70	21
220-6604	4	11,50 ± 0,5	135
220-6608	8	16,5 ± 0,5	244
220-6612	12	-	-

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Broadcast Cables

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26-65

EventSeries broadcast cables include a range of HD Coaxial cable for installation and outside broadcast ,up to and including versions for 4K/ UHDTV(12G-SDI) most designs having FireFighter Low Smoke Zero Halogen properties as standard.

Camera cables using traditional Triax designs in soft flexible material for studio as well as PUR and LSZH versions .We now also have Hybrid fibre & power cables according to SMPTE 311M-HD.

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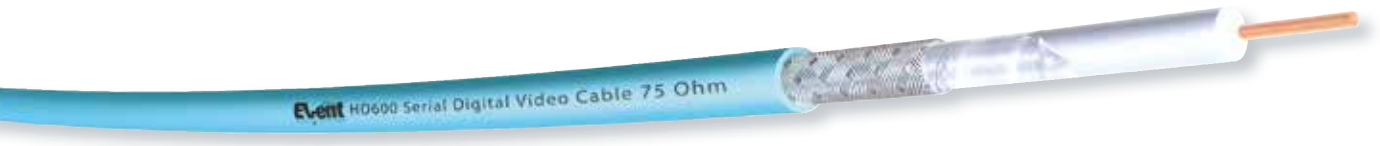
4K Ultra High Definition
HD600 Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Event® install Event® studio 4K READY ULTRA HD



Application

Event® Series HD Series Digital 75 Ohm video cables for the professional broadcaster provide high performance 4K signal transmission on a single coax reducing weight and space used significantly.

These cables have been engineered to exceed the SMPTE Return Loss (RL) requirements for UHDTV and optimising transmission distance.

- 12G-SDI SMPTE2082-1 4K Cinema UHDTV-1, UHDTV-2
- 6G-SDI SMPTE2081-1 4K Cinema UHDTV-1, UHDTV-2

Cable Design

Conductor .....Solid bare copper wire : 1 x 0,60 mm nom.
Dielectric .....Gas injected Polyethylene - physical foam Ø 2,90 mm
Screen .....Aluminium/Polyester/Aluminium
Shield .....Tinned copper braid, 95% coverage
Outer Jacket.....LSZH FireFighter® IEC 60332-1
Colour .....See specification table

Characteristics

- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034

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4K Ultra High Definition

HD600 Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Electrical Data

Characteristic Impedance		75	± 3 Ω
Screening Factor	≥	100	dB
Velocity Propagation		83	%
D.C.R Inner Conductor		53.,5	Ω/km
D.C.R Outer Conductor	<	17,5	Ω/km
Mutual Capacitance		56	pF/m
Return Loss upto 2.5 GHz	>	20	dB
Return Loss 2.5 GHz upto 4.5 GHz	>	14	dB
Return Loss 4.5 GHz upto 12 GHz	>	13	dB

Frequency		Attenuation		Frequency		Attenuation	
5	MHz	2,5	dB/100m	1500	MHz	41,9	dB/100m
71,5	MHz	9,0	dB/100m	2500	MHz	55,3	dB/100m
135	MHz	11,8	dB/100m	3000	MHz	60,6	dB/100m
180	MHz	14,1	dB/100m	6000	MHz	91,0	dB/100m
360	MHz	19,6	dB/100m	12000	MHz	130	dB/100m
750	MHz	28,5	dB/100m	-			
1000	MHz	34,6	dB/100m	-			

Specification

Part Number	Overall Diameter [mm]	Colour
HD600-13	4,5 ± 0,50	Turquoise
HD600-09	4,5 ± 0,50	Violet
HD600-03	4,5 ± 0,50	Green
HD600-02	4,5 ± 0,50	Blue
HD600-01	4,5 ± 0,50	Black
HD600-14	4,5 ± 0,50	Cream

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4K Ultra High Definition
HD720 Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Event® install Event® studio 4K READY ULTRA HD

Application

Event® Series HD Series Digital 75 Ohm video cables for the professional broadcaster provide high performance 4K signal transmission on a single coax reducing weight and space used significantly.

These cables have been engineered to exceed the SMPTE Return Loss (RL) requirements for UHDTV and optimising transmission distance.

- 12G-SDI SMPTE2082-1 4K Cinema UHDTV-1, UHDTV-2
- 6G-SDI SMPTE2081-1 4K Cinema UHDTV-1, UHDTV-2

Cable Design

Conductor .....Solid bare copper wire : 1 x 0,80 mm
Dielectric .....Gas injected Polyethylene - physical foam Ø 3,70 mm
Screen .....Aluminium/Polyester/Aluminium
Shield .....Tinned copper braid, 95% coverage
Outer Jacket.....LSZH FireFighter® IEC 60332-1
Colour .....See specification table

Characteristics

- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034

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4K Ultra High Definition

HD720 Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Electrical Data

Characteristic Impedance		75	± 3 Ω
Screening Factor	≥	100	dB
Velocity Propagation		83	%
D.C.R Inner Conductor		34,9	Ω/km
D.C.R Outer Conductor	<	12,5	Ω/km
Mutual Capacitance		56	pF/m
Return Loss upto 2.5 GHz	>	20	dB
Return Loss 2.5 GHz upto 4.5 GHz	>	14	dB
Return Loss 4.5 GHz upto 12 GHz	>	13	dB

Frequency		Attenuation		Frequency		Attenuation	
5	MHz	1,6	dB/100m	1500	MHz	31,1	dB/100m
71,5	MHz	6,2	dB/100m	2500	MHz	42,0	dB/100m
135	MHz	8,4	dB/100m	3000	MHz	46,7	dB/100m
180	MHz	10,1	dB/100m	6000	MHz	75,0	dB/100m
360	MHz	14,4	dB/100m	12000	MHz	110,0	dB/100m
750	MHz	20,9	dB/100m	-			
1000	MHz	25,4	dB/100m	-			

Specification

Part Number	Overall Diameter [mm]	Colour
HD720-01	6,00 ± 0,50	Black
HD720-13	6,00 ± 0,50	Turquoise

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4K Ultra High Definition
HD1000 Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Event® install Event® studio 4K READY ULTRA HD

Application

Event® Series HD Series Digital 75 Ohm video cables for the professional broadcaster provide high performance 4K signal transmission on a single coax reducing weight and space used significantly.

These cables have been engineered to exceed the SMPTE Return Loss (RL) requirements for UHDTV and optimising transmission distance.

- 12G-SDI SMPTE2082-1 4K Cinema UHDTV-1, UHDTV-2
- 6G-SDI SMPTE2081-1 4K Cinema UHDTV-1, UHDTV-2

Cable Design

Conductor .....Solid bare copper wire : 1 x 1,0 mm
Dielectric .....Gas injected Polyethylene - physical foam
Screen .....Aluminium/Polyester/Aluminium
Shield .....Tinned copper braid, 95% coverage
Outer Jacket.....LSZH FireFighter® IEC 60332-1
Colour .....See specification table

Characteristics

- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034

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4K Ultra High Definition

HD1000 Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Electrical Data

Characteristic Impedance		75	± 3 Ω
Screening Factor	≥	100	dB
Velocity Propagation		83	%
D.C.R Inner Conductor		22,0	Ω/km
D.C.R Outer Conductor	<	9,0	Ω/km
Mutual Capacitance		56	pF/m
Return Loss upto 2.5 GHz	>	20	dB
Return Loss 2.5 GHz upto 4.5 GHz	>	14	dB
Return Loss 4.5 GHz upto 12 GHz	>	13	dB

Frequency		Attenuation		Frequency		Attenuation	
5	MHz	1,5	dB/100m	1500	MHz	25,6	dB/100m
71,5	MHz	5,1	dB/100m	2500	MHz	34,1	dB/100m
135	MHz	6,9	dB/100m	3000	MHz	38,2	dB/100m
180	MHz	8,3	dB/100m	6000	MHz	57,8	dB/100m
360	MHz	11,7	dB/100m	12000	MHz	83,6	dB/100m
750	MHz	17,2	dB/100m	-			
1000	MHz	20,5	dB/100m	-			

Specification

Part Number	Overall Diameter [mm]	Colour
HD1000-13	6,60 ± 0,50	Turquoise
HD1000-10	6,60 ± 0,50	White
HD1000-01	6,60 ± 0,50	Black

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4K Ultra High Definition HD1630 HDTV and Serial Digital Video Cable 75 Ohm Extremely Low Loss LSZH FireFighter®

Event® install Event® studio 4K READY ULTRA HD

Application

Event® Series HD Series Digital 75 Ohm video cables for the professional broadcaster provide high performance 4K signal transmission on a single coax reducing weight and space used significantly.

These cables have been engineered to exceed the SMPTE Return Loss (RL) requirements for UHDTV and optimising transmission distance.

- 12G-SDI SMPTE2082-1 4K Cinema UHDTV-1, UHDTV-2
- 6G-SDI SMPTE2081-1 4K Cinema UHDTV-1, UHDTV-2

Cable Design

Conductor ..... Solid bare copper wire : 1 x 1,63 mm
Dielectric ..... Gas Injected Foam Polyethylene : Ø 7,11 mm
Screen ..... Aluminium/Polyester/Aluminium
Shield ..... Tinned copper braid, 95% coverage : Ø 7,80 mm
Outer Jacket ..... LSZH FireFighter® IEC 60332-1
Colour ..... See specification tablel

Mechanical & Thermal

Operating voltage	(max. peak value)	1,6 kV AC
Operating Temperature		-20 to +70°C
Bending radius	+20°C	60 mm (min.)
Bending radius	-30°C	120 mm (min.)

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4K Ultra High Definition HD1630 HDTV and Serial Digital Video Cable 75 Ohm
Extremely Low Loss LSZH FireFighter®

Electrical Data

Characteristic Impedance		75	± 3 Ω
Capacitance		53	pF/m
Screening attenuation	>	90	dB
Velocity ratio		0,83	(nom.)
D.C.R Inner Conductor		8,6	Ohm/km
D.C.R Outer Conductor	<	10,0	Ohm/km
Dielectric strength. 60 sn		3,0	kV DC
Insulation resistance		10000	MOhm x km (min.)
Return Loss upto 2.5 GHz	>	20	dB
Return Loss 2.5 GHz upto 4.5 GHz	>	14	dB
Return Loss 4.5 GHz upto 12 GHz	>	13	dB

Frequency		Attenuation		Frequency		Attenuation	
1.0	MHz	0.5	dB/100m	750	MHz	11.3	dB/100m
3.6	MHz	1.1	dB/100m	1000	MHz	12.9	dB/100m
5	MHz	0.9	dB/100m	1500	MHz	16.4	dB/100m
71.5	MHz	3.3	dB/100m	2500	MHz	20.7	dB/100m
135	MHz	4.4	dB/100m	3000	MHz	23.5	dB/100m
180	MHz	5.1	dB/100m	6000	MHz	36.2	dB/100m
360	MHz	7.5	dB/100m	12000	MHz	56.3	dB/100m

Specification

Part Number	Overall Diameter [mm]	Colour
HD1630-13	10,20 ± 0,50	Turquoise
HD1630-01	10,20 ± 0,50	Black
HD1630-17	10,20 ± 0,50	Light Green

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4K Ultra High Definition
4706 Silver Plated Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Event® install Event® studio 4K READY ULTRA HD

Application

Event® Series UHD Series Digital 75 Ohm video cables for the professional broadcaster provide high performance 4K signal transmission on a single coax reducing weight and space used significantly. Silver plated tri-shield construction for extended 12GHz installations.

These cables have been engineered to exceed the SMPTE Return Loss (RL) requirements for UHDTV and optimising transmission distance.

- 12G-SDI SMPTE2082-1 4K Cinema UHDTV-1, UHDTV-2
- 6G-SDI SMPTE2081-1 4K Cinema UHDTV-1, UHDTV-2

Cable Design

Conductor .....Solid Silver plated copper wire : 1 x 0,60 mm
Dielectric .....Gas injected Skin-Foam-Skin Polyethylene : Ø 2,80 mm
Screen 1 .....Aluminium/Polyester/Aluminium bonded to dielectric
Screen 2 .....Tinned copper braid, 91 % coverage
Outer Jacket.....LSZH FireFighter® IEC 60332-3-24
Colour.....See specification table

Characteristics

- Flame Retardant acc. to IEC 60332-3-24
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034
- -40°C to +80°C Temperature Range
- Min. Bending Radius : 5 x Ø single, 10 x Ø repeated

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4K Ultra High Definition

4706 Silver Plated Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Electrical Data

Characteristic Impedance		75	± 3 Ω
Capacitance		56	pF/m
Velocity Propagation		80	%
D.C.R Inner Conductor		62	Ω/km
D.C.R Braid		12,8	Ω/km
Return Loss 5-470 MHz	>	29	dB
Return Loss 470-862 MHz	>	25	dB
Return Loss 862-2150 MHz	>	24	dB
Return Loss 2150-3000 MHz	>	23	dB
Return Loss 4500-6000 MHz	>	19	dB
Return Loss 6000-8000 MHz	>	21	dB
Return Loss 8000-12000 MHz	>	18	dB
Tension Sheath Spaking Test		4,5	kV

Frequency		Attenuation		Frequency		Attenuation	
5	MHz	2.5	dB/100m	750	MHz	28	dB/100m
71.5	MHz	8.9	dB/100m	1000	MHz	34	dB/100m
88.5	MHz	9.7	dB/100m	1500	MHz	41.2	dB/100m
135	MHz	11.7	dB/100m	3000	MHz	59.6	dB/100m
180	MHz	13.9	dB/100m	6000	MHz	87.0	dB/100m
360	MHz	19.2	dB/100m	12000	MHz	128.9	dB/100m

Specification

Part Number	Overall Diameter [mm]	Colour	Connector	Tooling
4706	4,5 ± 0,10	Black	ES-4106-12G	TL 1021 HD

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4K Ultra High Definition
4708 Silver Plated Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Event® install Event® studio 4K READY ULTRA HD

Application

Event® Series UHD Series Digital 75 Ohm video cables for the professional broadcaster provide high performance 4K signal transmission on a single coax reducing weight and space used significantly. Silver plated tri-shield construction for extended 12GHz installations.

These cables have been engineered to exceed the SMPTE Return Loss (RL) requirements for UHDTV and optimising transmission distance.

- 12G-SDI SMPTE2082-1 4K Cinema UHDTV-1, UHDTV-2
- 6G-SDI SMPTE2081-1 4K Cinema UHDTV-1, UHDTV-2

Cable Design

Conductor .....Solid Silver plated copper wire : 1 x 0,80 mm
Dielectric .....Gas injected Skin-Foam-Skin Polyethylene : Ø 3,65 mm
Screen 1 .....Aluminium/Polyester/Aluminium bonded to dielectric
Screen 2 .....Tinned copper braid, 96 % coverage
Outer Jacket.....LSZH FireFighter® IEC 60332-3-24
Colour.....See specification table

Characteristics

- Flame Retardant acc. to IEC 60332-3-24
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034
- -40°C to +80°C Temperature Range
- Min. Bending Radius : 5 x Ø single, 10 x Ø repeated

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4K Ultra High Definition

4708 Silver Plated Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Electrical Data

Characteristic Impedance		75	± 3 Ω
Capacitance		53	pF/m
Velocity Propagation		84	%
D.C.R Inner Conductor		35	Ω/km
D.C.R Braid		9	Ω/km
Return Loss 5-470 MHz	>	30	dB
Return Loss 470-862 MHz	>	27	dB
Return Loss 862-2150 MHz	>	24	dB
Return Loss 2150-3000 MHz	>	21	dB
Return Loss 3000-4500 MHz	>	20	dB
Return Loss 4500-6000 MHz	>	19	dB
Return Loss 6000-8000 MHz	>	18	dB
Return Loss 8000-12000 MHz	>	16	dB
Tension Sheath Spaking Test		4,0	kV

Frequency		Attenuation		Frequency		Attenuation	
5	MHz	1.6	dB/100m	750	MHz	20.4	dB/100m
71.5	MHz	6.1	dB/100m	1000	MHz	24.8	dB/100m
88.5	MHz	6.7	dB/100m	1500	MHz	30.4	dB/100m
135	MHz	8.3	dB/100m	3000	MHz	45.7	dB/100m
180	MHz	9.9	dB/100m	6000	MHz	68.2	dB/100m
360	MHz	14.0	dB/100m	12000	MHz	101.1	dB/100m

Specification

Part Number	Overall Diameter [mm]	Colour	Connector	Tooling
4708	6,0 ± 0,10	Black	ES-4107-12G	TL 1021 HD

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12GHz Ultra High Definition
4710 Silver Plated Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Event® install Event® studio 4K READY ULTRA HD

Application

Event® Series UHD Series Digital 75 Ohm video cables for the professional broadcaster provide high performance 4K signal transmission on a single coax reducing weight and space used significantly. Silver plated tri-shield construction for extended 12GHz installations.

These cables have been engineered to exceed the SMPTE Return Loss (RL) requirements for UHDTV and optimising transmission distance.

- 12G-SDI SMPTE2082-1 4K Cinema UHDTV-1, UHDTV-2
- 6G-SDI SMPTE2081-1 4K Cinema UHDTV-1, UHDTV-2

Cable Design

Conductor .....Solid Silver plated copper wire : 1 x 1,00 mm
Dielectric .....Gas injected Polyethylene - physical foam Ø 4,60 ± 0,1 mm
Screen 1 .....Aluminium/Polyester/Aluminium bonded to dielectric
Screen 2 .....Tinned copper braid, 96 ± 3% coverage
Outer Jacket.....LSZH FireFighter® IEC 60332-3-24
Colour.....See specification table

Characteristics

- Flame Retardant acc. to IEC 60332-3-24
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034
- -40°C to +80°C Temperature Range
- Min. Bending Radius : 5 x Ø single, 10 x Ø repeated

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12GHz Ultra High Definition

4710 Silver Plated Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Electrical Data

Characteristic Impedance		75	± 3 Ω
Screening Factor	≥	100	dB
Velocity Propagation		84	%
D.C.R Inner Conductor		22,5	Ω/km
D.C.R Braid		8,3	Ω/km
Mutual Capacitance		53	pF/m
Return Loss 30-470 MHz	>	29	dB
Return Loss 470-862 MHz	>	27	dB
Return Loss 862-2150 MHz	>	24	dB
Return Loss 2150-3000 MHz	>	21	dB
Return Loss 3000-4500 MHz	>	20	dB
Return Loss 4500-6000 MHz	>	15	dB
Return Loss 6000-12000 MHz	>	13	dB
Tension Sheath Spaking Test		4,5	kV

Frequency		Attenuation		Frequency		Attenuation	
5	MHz	1.40	dB/100m	750	MHz	16.10	dB/100m
71.5	MHz	4.90	dB/100m	1000	MHz	19.20	dB/100m
88,5	MHz	5.30	dB/100m	1500	MHz	24.2	dB/100m
135	MHz	6.60	dB/100m	3000	MHz	36.2	dB/100m
180	MHz	7.80	dB/100m	6000	MHz	50.6	dB/100m
360	MHz	10.9	dB/100m	12000	MHz	75.5	dB/100m

Specification

Part Number	Overall Diameter [mm]	Colour	Weight [kg/km]	Connector	Tooling
4710	6,95 ± 0,10	Black	63.2	ES-4108-12G	TL 1021 HD

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4K Ultra High Definition
4713T Tri-Shield Silver Plated Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Event® install Event® studio 4K READY ULTRA HD

Application

Event® Series UHD Tri-Shield Series Digital 75 Ohm video cables for the professional broadcaster provide high performance 4K signal transmission on a single coax reducing weight and space used significantly. Silver plated tri-shield construction for extended 12GHz installations.

These cables have been engineered to exceed the SMPTE Return Loss (RL) requirements for UHDTV and optimising transmission distance.

- 12G-SDI SMPTE2082-1 4K Cinema UHDTV-1, UHDTV-2
- 6G-SDI SMPTE2081-1 4K Cinema UHDTV-1, UHDTV-2

Cable Design

Conductor .....Solid Silver plated copper wire : 1 x 1,30 ± 0,01 mm
Dielectric .....Gas injected Polyethylene - physical foam Ø 5,70 ± 0,1 mm
Screen 1 .....Aluminium/Polyester/Aluminium bonded to dielectric
Screen 2 .....Tinned copper braid, 96 ± 3% coverage
Screen 3 .....Aluminium/Polyester/Aluminium bonded to outer jacket
Outer Jacket.....LSZH FireFighter® IEC 60332-3-24
Colour.....See specification table

Characteristics

- Flame Retardant acc. to IEC 60332-3-24
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034
- -40°C to +80°C Temperature Range
- Min. Bending Radius : 80 mm

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4K Ultra High Definition

4713T Tri-Shield Silver Plated Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Electrical Data

Characteristic Impedance		75	± 1 Ω
Screening Factor	≥	100	dB
Velocity Propagation		84	%
D.C.R Inner Conductor		13,1	Ω/km
D.C.R Braid		5,5	Ω/km
Mutual Capacitance		51	pF/m
Return Loss 15-1600 MHz	>	23	dB
Return Loss 1600-4500 MHz	>	21	dB
Return Loss 4500-12000 MHz	>	15	dB
Tension Sheath Spaking Test		6,0	kV

Frequency		Attenuation		Frequency		Attenuation	
1	MHz	0,85	dB/100m	540	MHz	11,0	dB/100m
3,6	MHz	1,40	dB/100m	750	MHz	13,4	dB/100m
10	MHz	2,0	dB/100m	1000	MHz	15,4	dB/100m
71,5	MHz	4,4	dB/100m	1500	MHz	19,0	dB/100m
135	MHz	5,6	dB/100m	2250	MHz	23,8	dB/100m
180	MHz	6,5	dB/100m	3000	MHz	27,7	dB/100m
270	MHz	7,9	dB/100m	6000	MHz	40,5	dB/100m
360	MHz	9,0	dB/100m	12000	MHz	63,2	dB/100m

Specification

Part Number	Overall Diameter [mm]	Colour	Connector	Tooling
4713T	8,2 ± 0,20	Black	ES-4112-12G	TL 1027

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4K Ultra High Definition
4716T Tri-Shield Silver Plated Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Event® install Event® studio 4K READY ULTRA HD

Application

Event® Series UHD Tri-Shield Series Digital 75 Ohm video cables for the professional broadcaster provide high performance 4K signal transmission on a single coax reducing weight and space used significantly. Silver plated tri-shield construction for extended 12GHz installations.

These cables have been engineered to exceed the SMPTE Return Loss (RL) requirements for UHDTV and optimising transmission distance.

- 12G-SDI SMPTE2082-1 4K Cinema UHDTV-1, UHDTV-2
- 6G-SDI SMPTE2081-1 4K Cinema UHDTV-1, UHDTV-2

Cable Design

Conductor .....Solid Silver plated copper wire : 1 x 1,67 ± 0,01 mm
Dielectric .....Gas injected Polyethylene - physical foam Ø 7,11 ± 0,1 mm
Screen 1 .....Aluminium/Polyester/Aluminium bonded to dielectric
Screen 2 .....Tinned copper braid, 96 ± 3% coverage
Screen 3 .....Aluminium/Polyester/Aluminium bonded to outer jacket
Outer Jacket.....LSZH FireFighter® IEC 60332-3-24
Colour.....See specification table

Characteristics

- Flame Retardant acc. to IEC 60332-3-24
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034
- -40°C to +80°C Temperature Range
- Min. Bending Radius : 80 mm

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4K Ultra High Definition

4716T Tri-Shield Silver Plated Serial Digital Video Cable 75 Ohm LSZH FireFighter®

Electrical Data

Characteristic Impedance		75	± 1 Ω
Screening Factor	≥	100	dB
Velocity Propagation		84	%
D.C.R Inner Conductor		8,5	Ω/km
D.C.R Braid		4,9	Ω/km
Mutual Capacitance		51	pF/m
Return Loss 5-1600 MHz	>	23	dB
Return Loss 1600-4500 MHz	>	21	dB
Return Loss 4500-12000 MHz	>	15	dB
Tension Sheath Spaking Test		6,0	kV

Frequency		Attenuation		Frequency		Attenuation	
1	MHz	0.52	dB/100m	1000	MHz	12.76	dB/100m
5	MHz	1.11	dB/100m	1500	MHz	15.84	dB/100m
71.5	MHz	3.51	dB/100m	2250	MHz	19.75	dB/100m
135	MHz	4.62	dB/100m	3000	MHz	23.19	dB/100m
360	MHz	7.4	dB/100m	6000	MHz	34.28	dB/100m
540	MHz	9.22	dB/100m	12000	MHz	53.80	dB/100m
750	MHz	11.0	dB/100m	-		-	

Specification

Part Number	Overall Diameter [mm]	Colour	Connector	Tooling
4716T	10,16 ± 0,20	Black	ES-4109-12G	TL 1384

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HD300 HDTV and Serial Digital Video Cable 75 Ohm
Sub-Miniature

Event® install

Application

Miniature coaxial 75 ohm cable specifically for "digital truck" wiring.

Cable Design

Conductor ..... Solid bare copper wire : 1 x 0,30 mm
Insulation/Dielectric ..... Foam HDPE
Screen ..... Aluminium/Polyester/Aluminium
Shield ..... Tinned copper braid, 95% coverage
Outer Jacket ..... LSZH FireFighter® IEC 60332-1
Colour ..... See specification table

Characteristics

- Most commonly used to control stage lighting and effects
- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034

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HD300 HDTV and Serial Digital Video Cable 75 Ohm
Sub-Miniature

Electrical Data

Characteristic Impedance	75	± 1 Ω
Nom. Inductance	0,34	µH/m
Nom. Capacitance (cond-shield)	57	pF/m
Nom. Velocity of Propagation	77	%
Nom. Delay	4,33	ns/m
Nom. Conductor DC Resistance	231,1	Ohm/km at 20°C
Nom. Outer Shield DC Resistance	26,2	Ohm/km at 20°C

Frequency		Attenuation		Frequency		Attenuation	
1	MHz	3,8	dB/100m	180	MHz	29,2	dB/100m
5	MHz	6,0	dB/100m	270	MHz	35,4	dB/100m
6	MHz	6,5	dB/100m	360	MHz	41,0	dB/100m
7	MHz	7,0	dB/100m	540	MHz	50,2	dB/100m
10	MHz	7,8	dB/100m	720	MHz	58,7	dB/100m
12	MHz	12,5	dB/100m	750	MHz	60,0	dB/100m
67,5	MHz	19,3	dB/100m	1000	MHz	69,8	dB/100m
71,5	MHz	19,6	dB/100m	1500	MHz	86,2	dB/100m
88,5	MHz	21,6	dB/100m	2000	MHz	101,5	dB/100m
100	MHz	22,6	dB/100m	2250	MHz	107,6	dB/100m
135	MHz	25,7	dB/100m	3000	MHz	125,6	dB/100m
143	MHz	26,4	dB/100m	4500	MHz	155,8	dB/100m

Specification

Part Number	Overall Diameter [mm]	Colour
HD300-01	2,54	Black

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HD850-01 Stranded AES/EBU Digital Audio Coax

Event® install Event® studio

Application

Designed for HD/SD applications in outside broadcast vehicles, patch bays or field deployment, stranded centre conductor is used to optimise flexibility.

Cable Design

Conductor ..... 22awg Stranded Bare Copper 7x0.30mm ± 0.02
Insulation/Dielectric ..... Foam Polyethylene : Ø 3,70 ± 0,15 mm
Shield 1 ..... Tinned copper braid, 92% coverage
Shield 2 ..... Tinned copper braid, 92% coverage
Outer Jacket ..... LSZH FireFighter® IEC 60332-1
Colour ..... See specification table

Electrical Data

Max. Inner Conductor DC Resistance at 20°C	< 41,2 Ohm/km
Min. Insulation DC Resistance at 20°C	> 500 MOhm*km
Rated Temperature	-35°C up to +75°C
Operating Voltage	300 V rms
Impedance	75 Ohm
Capacitance Conductor to Shield	55,7 ± 5 pF/m

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HD850-01 Stranded AES/EBU Digital Audio Coax

Attenuation ± 15%

Freqency [MHz]	Attenuation [dB/100m]	Freqency [MHz]	Attenuation [dB/100m]
1	0,656	143	11,812
3,6	1,641	180	13,452
5	1,969	270	16,733
6	2,198	360	19,686
7	2,395	540	24,279
10	2,953	720	28,545
12	3,215	750	29,201
25	4,725	1000	34,451
67,5	7,874	1500	43,637
71,5	8,203	2000	51,512
88,5	9,187	2250	55,449
100	9,843	3000	66,604
135	11,484	4500	92,524

Specification

Cross Section	Part Number	Overall Diameter [mm]	Colour
	HD850-01	6,20 ± 0,40	Black

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HD920-01 Stranded AES/EBU Digital Audio Coax

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Application

Designed for HD/SD applications in outside broadcast vehicles, patch bays or field deployment, stranded centre conductor is used to optimise flexibility.

Cable Design

Inner Conductor..... Stranded Bare copper wire (19/7 AWG) Ø 1,10 mm

Insulation/Dielectric..... Foamed Polyethylene (PE) with skin Ø 4,60 mm

Shield 1°..... Tinned copper braid, 95% coverage

Shield 2°..... Tinned copper braid, 95% coverage

Outer Jacket..... LSZH FireFighter®

Mechanical & Thermal Characteristics

Permissable temperature range	Transport and fixed installation	-50 ~ +80°C
Permissable temperature range	Installation and flexible use	-40 ~ +80°C
Flame retardant		acc. to IEC 60332-3-24 (Cat. C)
Min. Bending radius allowed	repeated	10 x Ø
Min. Bending radius allowed	single	5 x Ø
Weight (approx.)		78 kg/km

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HD920-01 Stranded AES/EBU Digital Audio Coax

Electrical Data

Frequency		Attenuation		Frequency		Attenuation	
1.0	MHz	0,79	dB/100m	180	MHz	10,83	dB/100m
3.58	MHz	1,48	dB/100m	270	MHz	13,12	dB/100m
5	MHz	1,77	dB/100m	360	MHz	15,42	dB/100m
6	MHz	1,81	dB/100m	540	MHz	19,36	dB/100m
7	MHz	2,03	dB/100m	720	MHz	22,64	dB/100m
10	MHz	2,36	dB/100m	750	MHz	22,97	dB/100m
12	MHz	2,72	dB/100m	1000	MHz	26,90	dB/100m
25	MHz	3,87	dB/100m	1500	MHz	34,12	dB/100m
67,5	MHz	6,23	dB/100m	2000	MHz	40,36	dB/100m
71,5	MHz	6,56	dB/100m	2250	MHz	43,31	dB/100m
88,5	MHz	7,22	dB/100m	3000	MHz	51,18	dB/100m
100	MHz	7,87	dB/100m	4500	MHz	64,96	dB/100m
135	MHz	9,19	dB/100m	6000	MHz	74,50	dB/100m
143	MHz	9,52	dB/100m	-		-	

Return Loss

Frequency		dB	
5-850	MHz	20	dB
850-6000	MHz	15	dB

Specification

Part Number	Overall Diameter [mm]	Colour
HD920-01	7,0 ± 0,50	Black

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HD920F-01 Stranded AES/EBU
Tactical Digital Audio Coax

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Application

Designed for HD/SD applications in outside broadcast vehicles, patch bays or field deployment, stranded centre conductor is used to optimise flexibility.

Cable Design

Inner Conductor..... Stranded Bare copper wire (19/7 AWG) Ø 1,10 mm
Insulation/Dielectric..... Foamed Polyethylene (PE) with skin Ø 4,60 mm
Shield 1°..... Tinned copper braid, 95% coverage
Shield 2°..... Tinned copper braid, 95% coverage
Outer Jacket..... TPE

Mechanical & Thermal Characteristics

Permissable temperature range	Transport and fixed installation	-50 ~ +80°C
Permissable temperature range	Installation and flexible use	-40 ~ +80°C
Flame retardant		acc. to IEC 60332-1
Min. Bending radius allowed	repeated	10 x Ø
Min. Bending radius allowed	single	5 x Ø
Weight (approx.)		78 kg/km

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HD920F-01 Stranded AES/EBU
Tactical Digital Audio Coax

Electrical Data

Frequency		Attenuation		Frequency		Attenuation	
1.0	MHz	0,79	dB/100m	180	MHz	10,83	dB/100m
3.58	MHz	1,48	dB/100m	270	MHz	13,12	dB/100m
5	MHz	1,77	dB/100m	360	MHz	15,42	dB/100m
6	MHz	1,81	dB/100m	540	MHz	19,36	dB/100m
7	MHz	2,03	dB/100m	720	MHz	22,64	dB/100m
10	MHz	2,36	dB/100m	750	MHz	22,97	dB/100m
12	MHz	2,72	dB/100m	1000	MHz	26,90	dB/100m
25	MHz	3,87	dB/100m	1500	MHz	34,12	dB/100m
67,5	MHz	6,23	dB/100m	2000	MHz	40,36	dB/100m
71,5	MHz	6,56	dB/100m	2250	MHz	43,31	dB/100m
88,5	MHz	7,22	dB/100m	3000	MHz	51,18	dB/100m
100	MHz	7,87	dB/100m	4500	MHz	64,96	dB/100m
135	MHz	9,19	dB/100m	6000	MHz	74,50	dB/100m
143	MHz	9,52	dB/100m	-		-	

Return Loss

Frequency		dB	
5-850	MHz	20	dB
850-6000	MHz	15	dB

Specification

Part Number	Overall Diameter [mm]	Colour
HD920F-01	7,0 ± 0,50	Black

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Maximum Transmission Length for "HD" Series Coaxial

	SD-SDI(NTSC)	*SD-SDI(PAL)*	*SD-SDI*	*SD_SDI*
Data Rate	143 Mb/s	177 Mb/s	270 Mb/s	360 Md/s
Spec	SMPTE 259	SMPTE 259	SMPTE 259M	SMPTE 259M
Application	Composite NTSC	Composite PAL	Composite 4:3 SD-SDI	Widescreen SD-SDI
Part No.	Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]
HD300	152	137	116	111
HD600	333	306	254	213
4706	337	309	256	216
HD720	484	441	357	297
4708	492	448	361	303
HD850	400	345	280	246
HD920	454	408	318	272
HD920F	454	408	318	272
HD1000	588	536	435	361
4710	612	566	455	385
HD1300	581	520	433	372
4713T	675	620	521	459
HD1630	909	833	682	588
4716T	938	882	714	612

Application		Composite Video FBAS	S-Video S-VHS,Y/C	Component Video RGB , YUV
Part No.	Attenuation 100 MHz/100m	Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]
HD300	22 dB	50	50	50
HD600	10 dB	121	121	121
HD720	7.5 dB	149	149	149
HD850	9.8 dB	105	105	105
HD1000	6.4 dB	208	208	208
HD1300	4.7 dB	320	320	320
HD1630	4.2 dB	329	329	329

The calculated transmission distances are based on a formula in the SMPTE standards , in many cases tested distances are greater.
Please use calculated distances prior to testing and allow sufficient headroom.

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HD	*3 GHz*	*3 GHz*	*6 GHz*	*12 GHz*
1.5 Gb/s	3 Gb/s	3 Gb/s	6 Gb/s	12 Gb/s
SMPTE 292M (SMPTE 372M)	SMPTE 424M	SMPTE 425-4	SMPTE ST 2081-1	SMPTE ST 2082-1
720p -1080i (Dual Link 1080p)	3G-SDI HD-SDI 1080i 1.5G-SDI	UHDTV1 UHDTV2	UHDTV1, UHDTV2	UHDTV1, UHDTV2
Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]
34	25	25	24	21
70	50	95	66	44
71	49	97	67	46
96	64	129	86	53
98	66	132	88	59
71	48	96	63	38
79	59	106	69	54
79	59	106	69	54
116	78	156	105	69
124	83	165	110	79
144	120	192	128	81
150	104	210	143	99
177	122	244	170	110
182	129	258	184	117

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Triaxial Camera Cable

Event® install

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.

Cable Design

Inner Conductor.....Silver Plated Copper Wire
Dielectric .....Foam Polyethylene
1° Braid.....Silvered Copper Wire
1° Sheath.....Low Density Polyethylene
Tape.....Non-Migrating Polyester Tape
2° Braid.....Plain Copper Wire
Sheath.....see specification table

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Triaxial Camera Cable

Specification

Cross Section	Type	Outer Jacket	Part Number	Colour
	Fixed Installation	LSZH	TX8H-04	Red
	Flexible Application	LSZH	TX8HF-04	Red
	Flexible Application	PUR	TX8HFPUR	Red
	Fixed Installation	LSZH	TX11H-04	Red
	Flexible Application	LSZH	TX11HF-04	Red
	Outdoor Applications	HDPE	TX11FHDPE	Black
	Flexible Application	LSZH	TX14HF-04	Red
	Outdoor Applications	HDPE	TX14FHDPE	Black

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LSZH Fibre Hybrid HDTV Camera Cable - SMPTE 311M

Event® install

Application

When carrying HD-SDI video many venues and large facilities need longer distances. SMPTE 311M is the solution that fills that requirement. Designed for high-definition (HD) cameras, this composite cable can carry multiplex audio signals, video signals and deliver power.

Cable Design

Element 1 .....Auxillary Conductor (4x0,6mm²)

- Conductor.....Stranded tinned copper wire (19x0,20mm) 20awg Ø 1,0 mm
- Insulation.....LSZH FireFighter Ø 1,50 mm
- Core identification.....Black, White numbered (BK/1, BK/2, WH/1, WH/2)

Element 2 .....Signal Conductors (2x0,22mm²)

- Conductor.....Stranded tinned copper wire (7x0,20mm) 24awg Ø 0,6 mm
- Insulation.....LSZH FireFighter Ø 1,40 mm
- Core identification.....Red / Grey

Element 3 .....Fibre Optic (2x9/125µm) Tight Buffered

- Wavelength.....1310 nm
- Attenuation.....0,5 dB/km
- Identification.....Blue, Yellow
- Diameter.....1,60 mm

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LSZH Fibre Hybrid HDTV Camera Cable - SMPTE 311M

Lay up and Construction

Central Element.....LSZH sheathed 19x0,35mm Steel stranded wire Ø 2,40mm

Cable Core .....Elements 1, 2 and 3 around Central element with fillers

Tape.....Plastic tape overlapped

Braid.....Tinned copper wire braid. coverage 80 % (nom.) Ø 5,90mm

Outer Jacket .....LSZH FireFighter (IEC 60332-3-24 Cat.C) Ø 9,0 ± 0,3 mm

Electrical Data

Conductor Resistance	0,22 mm^2	≤	95	Ohm/km
Conductor Resistance	0,60 mm^2	≤	34	Ohm/km
Overall Screen Resistance		≤	20	Ohm/km
Insulation Resistance		≥	20	MOhm*km
Operating Voltage (peak)		≤	300	V
Test voltage (wire/wire/screen rms 50Hz 1min.)			1500	V

Mechanical & Thermal Characteristics

Permissable Temperature Range		-30°C up to +70°C
Min. Bending Radius	Dynamic	15 x Ø
Min. Bending Radius	Static	10 x Ø
Max. Pull Force		800 N
Weight (approx.)		125kg/km
Flame Retardant		acc. to IEC 60332-3-24 (Cat.C)

Specification

Part Number	Type
406311M	LSZH Fibre Hybrid HDTV Camera Cable

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Fibre Hybrid HDTV Camera Cable - SMPTE 311M

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Application

When carrying HD-SDI video many venues and large facilities need longer distances. SMPTE 311M is the solution that fills that requirement. Designed for high-definition (HD) cameras, this composite cable can carry multiplex audio signals, video signals and deliver power.

Cable Design

Element 1 .....Auxillary Conductor (4x0,6mm²)
- Conductor.....Stranded tinned copper wire (19x0,20mm) 20awg
- Insulation.....High Density Polyethylene (HDPE) Ø 1,60 mm
- Core identification.....Blue, White, Black/White, White/Black

Element 2 .....Signal Conductors (2x0,22mm²)
- Conductor.....Stranded tinned copper wire (7x0,20mm) 24awg
- Insulation.....High Density Polyethylene (HDPE) Ø 1,20 mm
- Core identification.....Red / Grey

Element 3 .....Fibre Optic (2x9/125µm) Tight Buffered
- Fibre Type .....Single Mode 9/125µm
- Concentricity error.....≤ 1 µm
- Coating Material.....UV cross-linked Acrylate, 245 µm
- Buffer Material.....PA +silicone layer, Ø 0,9µm
- Identification.....Blue, Yellow

Lay up and Construction
- Central Element.....HDPE sheathed 19x0,30mm Steel stranded wire Ø 2,15mm
- Cable Core .....Elements 1, 2 and 3 around Central element Ø 5,50 mm
- Tape.....Woven Non Woven tape
- Braid.....Tinned copper wire braid, 0,10 mm. coverage 80 % (nom.)
- Outer Jacket .....Polyurethane (PUR)

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Fibre Hybrid HDTV Camera Cable - SMPTE 311M

Electrical Data

Element 1 Auxillary Conductor (4x0,6mm²)	DC Resistance	≤	35,3	Ohm/km
	Loop Resistance	≤	43	Ohm/km
	Insulation Resistance	≥	104	MOhm*km
	Test Voltage		1750	V AC rms
	Operating Voltage	≤	300	V AC rms
Element 2 Signal Conductors (2x0,22mm²)	DC Resistance	≤	97,5	Ohm/km
	Loop Resistance	≤	184	Ohm/km
	Insulation Resistance	≥	104	MOhm*km
	Test Voltage		1750	V AC rms
	Operating Voltage	≤	300	V AC rms
	Braid DC Resistance	≤	20	Ohm/km
Element 3 Fibre Optic (2x9/125µ)	Cut-off Wavelength		1100 - 1350	nm
	Attenuation at 1310 nm (max.)		0,42	dB/km
	Attenuation at 1550 nm (max.)		0,28	dB/km

Mechanical & Thermal Characteristics

Temperature Range	storage	-40°C up to +75°C
Temperature Range	operation	-30°C up to +60°C
Temperature Range	Installation	-30°C up to +60°C
Min. Bending Radius	Dynamic	15 x Ø
Min. Bending Radius	Static	10 x Ø
Tensile Strength (approx.)		750 N
Weight (approx.)		116 kg/km

Specification

Part Number	Type
806311M	Fibre Hybrid HDTV Camera Cable - SMPTE 311M Polyurethane (PUR)

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75 Ohm Low Loss Video Coax Cables Broadcast 2 & 3

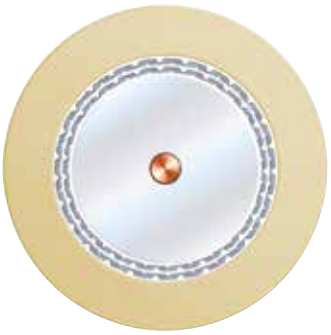
Event® install Event® studio

Application

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

Cable Design

Conductor .....Solid bare copper wire
Insulation/Dielectric .....Solid Polyethylene (PE)
Shield 1 ° .....Tinned copper braid
Shield 2 ° .....Tinned copper braid
Outer Jacket.....Polyvinylchloride (PVC)
Colour.....Cream



Specification

Part Number	Conductor Size [mm]	Overall Diameter [mm]
VID 1/2	1/0,8	7,50
VID 1/3	1/0,605	6,40

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75 Ohm Low Loss Video Coax Cables Broadcast 2 & 3

Electrical Data

		VID 1/2	VID 1/3
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)		24/5/0.15 mm	16/7/0.15 mm
Shield 2)		24/6/0.15 mm	16/7/0.15 mm
Attenuation	1 MHz	0.8 dB/100m	1.0 dB/100m
Attenuation	10 MHz	2.6 dB/100m	3.3 dB/100m
Attenuation	135 MHz	10.1 dB/100m	12.4 dB/100m
Attenuation	180 MHz	11.8 dB/100m	14.5 dB/100m
Attenuation	270 MHz	14.7 dB/100m	18.0 dB/100m
Attenuation	360 MHz	17.1 dB/100m	21.0 dB/100m
Attenuation	570 MHz	22.1 dB/100m	27.1 dB/100m
Attenuation	780 MHz	26.5 dB/100m	32.3 dB/100m
Attenuation	1000 MHz	30.9 dB/100m	37.5 dB/100m

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Miniature 2core 75 Ohm S-VHS Coaxial Cable

Event® install

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.

Cable Design

Conductor ..... Stranded bare copper wire (11 x 0,2 mm)

Insulation ..... Flame retardant PVC

Screen ..... Bare copper LAP screen, 95 % coverage

Core Jacket ..... Flame retardant PVC : Ø 2,0 mm

Assembly ..... 2 screened cores Yellow / Red

Outer Jacket ..... PVC-Rubber

Electrical Data

Resistance	141	Ohm/km
Capacitance	330	pF/m

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Miniature 2core 75 Ohm S-VHS Coaxial Cable

Mechanical & Thermal Characteristics

Temperature Range (static)	-20°C up to +80°C	
Temperature Range (Installation)	-5°C up to +80°C	
Minimum Bending Radius	7	x Ø
Weight	50	kg/km

Specification

Part Number	Overall Diameter [mm]	Colour
S-VHS	5,60	Black

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Digital Lighting DMX Cables

Australia | Maser Communications (Aust) Pty Ltd.
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66-77

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.

DMX Data Control Cable 500 V

Event® install

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.

Cable Design

Conductor .....Stranded Tinned Copper (16 x 0,20 mm) 0,5 mm^2
Insulation .....Foam Polyethylene ∅ 1,8 ± 0,05 mm
Pair.....2 wires twisted to a pair
No. of Pairs.....1 Pair : Black, Red
2 Pair : Black, Red, / Yellow, Green
Drain Wire .....Stranded Tinned Copper (16 x 0,20 mm)
Shield .....Aluminium/polyester tape. (Aluminium inside)
Outer Jacket.....LSZH FireFighter®, FRLS or TPE

Characteristics

- Most commonly used to control stage lighting and effects
- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034

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DMX Data Control Cable 500 V

Technical Data

Impedance	110±5	Ω
Tray Rated Voltage	500	V
Test Voltage	2000	V
Service Temperature (static)	-20°C to +80	°C
Service Temperature (mobile)	-5°C to +80	°C
Weight	34	kg/km

Specification

Part Number	Application	No. of Pairs	Type	Overall Diameter [mm]	Min. Bending Radius [mm]	Colour	Euroclass
DMX-01	Patching	1	FRLS	5,75 ± 0,3	60	Black	Eca
DMXLSZH-01	Install	1	LSZH	5,75 ± 0,3	60	Black	Dca-s2,d2,a1
DMXLSZH-10	Install	1	LSZH	5,75 ± 0,3	60	White	Dca-s2,d2,a1
DMX-04	Patching	1	FRLS	5,75 ± 0,3	60	Red	Eca
DMX-P-01 *	Portable	1	TPE	5,75 ± 0,3	60	Black	Eca
DMXLSZH2-01	Install	2	LSZH	8,20 ± 0,5	90	Black	Dca-s2,d2,a1

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DMXR 110 Ohm AES/EBU Tactical PUR

Event® tour

Application

Tough, flexible & lightweight this Event® DMXR is designed with a robust double shielding system making it possible to transmit 110ohm Digital AES/EBU signals, DMX512 protocol or EIA-RS485 free of outside interference. The hardwearing yet flexible PUR blended jacket gives great handling performance during installation and the capability to deploy & re-deploy in mobile or hire situations makes it truly versatile.

Cable Design

Conductor .....Flexible tin-plated copper conductor. EN 60228 7x0,25 mm (0,34 mm²)
Insulation .....Foam-PE compound . Ø 1,55 mm nom.
Core configuration .....2 cores stranded with fillers for roundness
Foil Shield.....Metallic foil Alu/PET tape
Drain Wire .....Stranded Tinned Copper Drain Wire
Braid Shield .....Tinned copper wire braiding, coverage 90%
Separator .....Non-woven tape, 100% coverage
Outer Jacket.....PUR acc. to EN 50363-10-2, type TMPU. UV-Resistant. Ø 5,8 mm nom.

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DMXR 110 Ohm AES/EBU Tactical PUR

Electrical Characteristics @ 20°C

Conductor DC Resistance	nom.	<	56	Ohm/km
Capacitance (conductors to conductors)	nom.		46	pF/m
Capacitance (conductors to screen)	nom.		70	pF/m
Impedance	AES/EBU,DMX		110	Ohm

Thermal & Mechanical Characteristics

Temperature Range	-30 to +70	°C
Installation temperature	0 to +50	°C
Min. Bending Radius	10	x Ø

Specification

Part Number	Overall Diameter mm (nom.)	Weight kg/km (nom.)	Colour
DMXR	5,8	52	Black

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DMX2R 110 Ohm AES/EBU TPU

Event® studio Event® tour

Application

Tough, flexible & lightweight this Event® DMX2R is designed with a robust double shielding system making it possible to transmit 110ohm Digital AES/EBU signals, DMX512 protocol or EIA-RS485 free of outside interference. The hardwearing TPU jacket gives great handling performance during installation and the capability to deploy & re-deploy in mobile or hire situations makes it truly versatile.

Cable Design

Conductor .....Stranded Tinned Copper (7x0,25 mm) 22awg (0,34 mm²)
Insulation .....Foam-PE compound . Ø 1,55 mm nom.
Core configuration .....2 cores twisted to a pair
No. of Pairs .....2 Pairs : Black, Red, / Yellow, Green
Foil Shield .....Metallic foil Alu/PET tape
Drain Wire .....Stranded Tinned Copper Drain Wire
Braid Shield .....Tinned copper wire braiding, coverage 90%
Separator .....Non-woven tape, 100% coverage
Outer Jacket .....TPU Ø 8,0 mm nom.

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DMX2R 110 Ohm AES/EBU TPU

Electrical Characteristics @ 20°C

Conductor DC Resistance	nom.	<	56	Ohm/km
Capacitance (conductors to conductors)	nom.		46	pF/m
Capacitance (conductors to screen)	nom.		70	pF/m
Impedance	AES/EBU,DMX		110	Ohm

Thermal & Mechanical Characteristics

Temperature Range	-30 to +70	°C
Installation temperature	0 to +50	°C
Min. Bending Radius	10	x Ø

Specification

Part Number	Overall Diameter mm (nom.)	Colour
DMX2R	8,0	Black

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HYB-3902 110 Ω AES/EBU, DMX & Power

Event® install Event® tour

Application

This Event® hybrid breakout cable combines a single 22awg pair with double shielding suitable for 110ohm AES/EBU, DMX512 & EIA-RS485 applications and 3cores of 1.50mm² power. Each cable element is pre-jacketed with a flexible PVC compound ensuring handling and termination is quick & easy. The overall cable wears a specially blended TPM material making it soft but hardwearing for install and mobile applications.

Cable Design

Power Cores (3G 1,50mm²)

Conductor	Flexible OFC copper conductor, EN 60228 Cl.5 (1,50mm²)
Insulation	PVC (Ø 2,30 mm nom.)
Core configuration	3 cores stranded (Blue – Brown – Yellow/green)
Sheath	PVC Black (Ø 7,0 mm nom.)

AES/EBU,DMX (1x2x0,34 mm²)

Conductor	Flexible tin-plated copper conductor, EN 60228 Cl.2 (7/0,25mm)
Insulation	Foam-PE compound (Ø 1,55 mm nom.)
Core configuration	2 cores stranded (Red - Black)
Shielding	Alu/PET tape + TC drain Wire + Tinned copper wire braid, coverage 90%
Sheath	PVC Black (Ø 4,6 mm nom.)

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HYB-3902 110 Ω AES/EBU, DMX & Power

Lay - Up

Construction	[(3LIY 1,5mm²)Y+1(2LI2Y0,34mm²)DY]VLY
Separator	Non-woven tape (100% coverage)

Outer Jacket

Material	TPM Black
UV Resistant	Yes
Overall Diameter	Ø 14,6 mm nom.
Weight	240 kg/km nom.

Electrical Characteristics @ 20°C

Conductor DC Resistance nom.	*Power 1,5 mm²*	13,3	Ohm/km
Conductor DC Resistance nom.	*AES/EBU,DMX 0,34mm²*	56	Ohm/km
Capacitance (conductors to conductors)	*nom.*	46	pF/m
Capacitance (conductors to screen)	*nom.*	70	pF/m
Impedance	*AES/EBU,DMX 0,34mm²*	110	Ohm

Thermal & Mechanical Characteristics

Temperature Range	-30 to +70	°C
Installation temperature	0 to +50	°C
Min. Bending Radius	10	x Ø

Specification

Part Number	Overall Diameter mm (nom.)	Weight kg/km (nom.)	Colour
HYB-3902	14,6	240	Black

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Scroller Power and Data Cable 600V LSZH FireFighter®

Event® install

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.

Cable Design

Digital Signal-Pair 1x2x24awg

Conductor	24awg Stranded Tinned Copper (7 x 0,20 mm)
Insulation	Solid Polyethylene Ø 1,25 mm nom.
Pair identification	Grey / Yellow
Tape	Tape wrapped around pair
Drain Wire	Stranded Tinned Copper (7 x 0,20 mm)
Screen	Aluminium/polyester (Alu. inside)

Power cores 2x16awg

Conductor	16 awg Stranded Tinned Copper (19 x 0,30 mm)
Insulation	Solid Polyethylene Ø 2,20 mm nom.
Core identification	Black / Red

Fire Behaviour

- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc. to IEC 60754
- Smoke Emission acc. to IEC 61034

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Scroller Power and Data Cable 600V LSZH FireFighter®

Assembly ..... 1 screened data pair + 2 power cores cabled together Ø 4,60 mm

Tape ..... Overall tape wrapped around cable assembly

Outer Jacket ..... LSZH FireFighter®

Colour ..... Black

Diameter ..... Ø 6,60 ± 0,30 mm

Thermal & Mechanical Characteristics

Service Temperature	static	-20°C up to +80°C
Service Temperature	mobile	-5°C up to +80°C
Bending radius		12 x Ø
Weight (approx.)		65 kg/km

Specification

Part Number	Type
50005031	EventSeries® Scroller Power and Data Cable 2x16awg Power + 1x2x24awg Data LSZH FireFighter® IEC60332-1 Black

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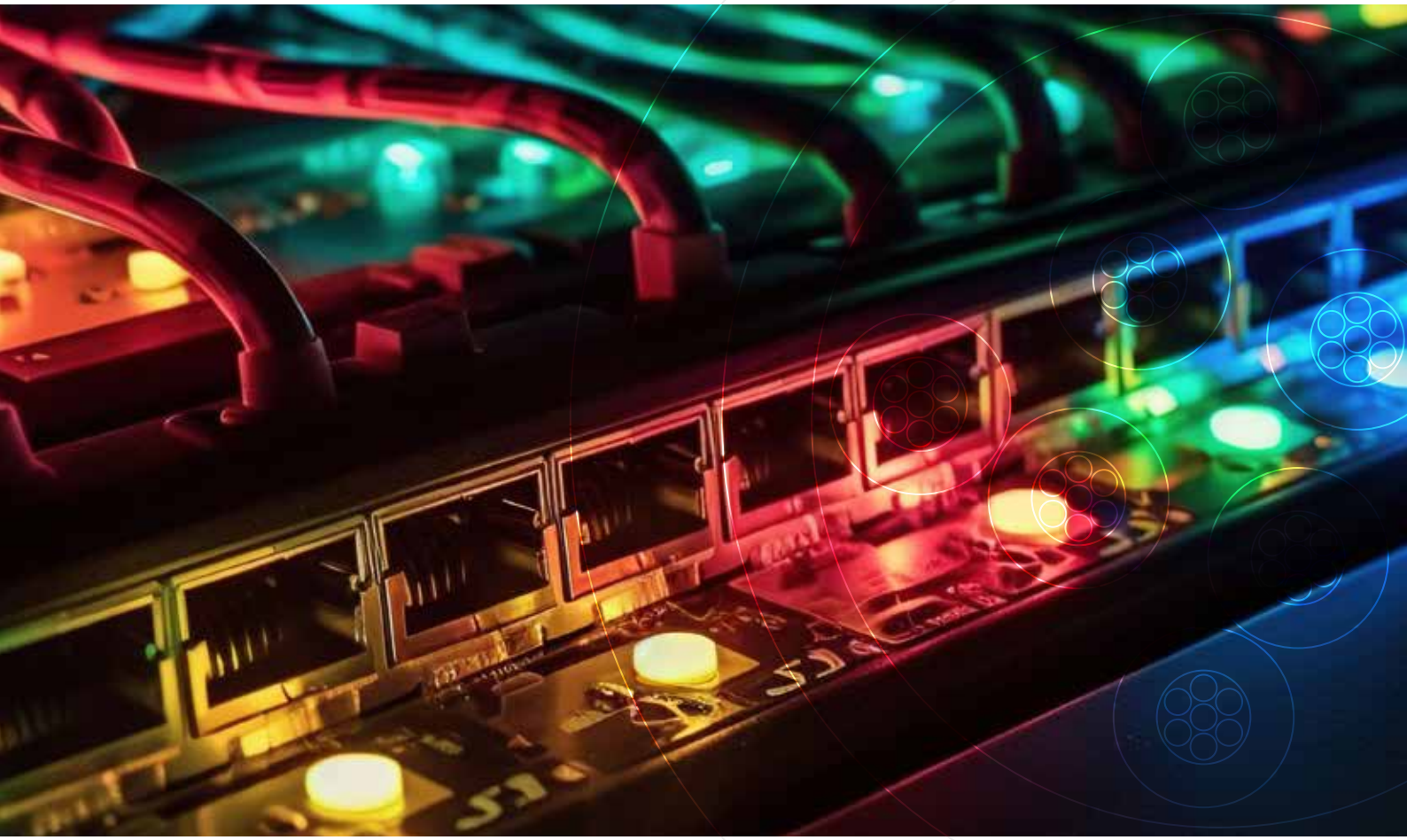
Ethernet Cables



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78-99

The requirement for high quality Ethernet cables in Audio & Broadcast is as important as any other industry but it is particularly important that any designs make allowances for the demands of this harsh environment.

The challenge to create compliant cables which are durable and portable has been met within the Event®Series and is available from CAT5e to CAT 7.

For Fixed installation we have CAT5e to CAT8 , available in CPR Euroclass up to B2ca. CAT6 and CAT6a cables are also available with HDBaseT Certification.

CAT5e U/UTP 24/7awg 4pair
Upjacketed Tactical Ethernet Cable <350MHz>

Event® **studio** Event® **tour**

Application

Tactical ethernet cable for transmission lengths up to 350MHz. The compounds used in the unique dual jacket make the cable supple and agile. Outer jacket can be removed easily to allow termination to standard RJ45 connectors on the inner sheath . Alternatively our oversized connector PGSKL or Tool-less Field connectors can be used. (see specification table)

Cable Design

Conductor .....Stranded bare copper wire, 24 awg (7/0,203mm)
Insulation .....Solid Polyethylene (PE) : Ø 1,01 mm
Pairs.....2 insulated conductors twisted to a pair
Pairs Identification .....WHBU/BU - WHOG/OG - WHGN/GN - WHBN/BN
Lay up .....4 pairs stranded
Inner Jacket.....Flexible Technical Polymer Compound : Ø 5,50 ± 0,20 mm
Outer Jacket.....Flexible Technical Polymer Compound : Ø 7,50 ± 0,25 mm

Specification

Part Number	Inner Jacket Diameter [mm]	Overall Diameter [mm]	Connector for use over outer jacket	Tool-Less Field connector for use over outer jacket
2442	5,50 ± 0,20	7,50 ± 0,25	PGSXL	PGSMC

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CAT5e U/UTP 24/7awg 4pair
Upjacketed Tactical Ethernet Cable <350MHz>

Electrical Data

Conductor DC Resistance @ 20°C		< 9,13	Ohm/100M
Min. Insulation DC Resistance @ 20°C		> 200	MOhm*M
Rated Voltage		150	V
Rated Temperature		80	°C
Impedance	1-100 MHz	100±15	Ohm
Impedance	100-250 MHz	100±20	Ohm
Impedance	250-350 MHz	100±22	Ohm

Transmission Characteristics*

Frequency (MHz)	Attenuation (dB ± 15%)	Min. Return Loss (dB)	Min. NEXT Worst Pair (dB)
1	2,40	20,0	65,3
4	4,90	23,0	56,3
8	6,90	24,5	51,8
10	7,80	25,0	50,3
16	9,90	25,0	47,3
20	11,10	25,0	45,8
25	12,50	24,2	44,3
31,25	14,10	23,3	42,9
62,5	20,40	20,7	38,4
100	26,40	19,0	35,3
115	33,70	18,8	32,4
200	38,98	18,0	30,8
250	44,20	17,3	29,3
300	49,20	16,8	28,1
310	50,20	16,7	27,9
350	53,80	16,3	27,1

*Installation length up to 100m acc. to Cat5e standards.

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CAT5e S/UTP 24/7awg 4pair Upjacketed
Tactical Ethernet

Event® studio Event® tour

Application

Tactical ethernet cable for touring and other portable applications. The compounds used in the unique dual jacket make the cable supple and agile. Outer jacket can be removed easily to allow termination to standard shielded RJ45 connectors on the inner sheath over the braid. Alternatively our oversized connector PGSXL connectors can be used. (see specification table)

Cable Design

Conductor .....Stranded tinned copper wire, 24 awg (7/0,202mm)
Insulation .....Solid Polyethylene (PE) : Ø 0,98 mm
Pairs .....2 insulated conductors twisted to a pair
Pairs Identification .....WHBU/BU - WHOG/OG - WHGN/GN - WHBN/BN
Cable core .....4 pairs cabled together
Inner Jacket .....Special Black PVC : Ø 5,10 mm nom.
Braid Shield .....38 AWG tinned copper @ 85% coverage
Outer Jacket .....Special Soft Black TPM : Ø 7,50 mm nom.

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CAT5e S/UTP 24/7awg 4pair Upjacketed
Tactical Ethernet

Electrical Data

Conductor DC Resistance @ 20°C		< 9,13	Ohm/100M
Min. Insulation DC Resistance @ 20°C		> 5000	MOhm*M
Rated Voltage		150	V
Rated Temperature		80	°C
Impedance	1-100 MHz	100±15	Ohm
Impedance	100-250 MHz	100±20	Ohm
Impedance	250-350 MHz	100±22	Ohm

Transmission Characteristics*

Frequency (MHz)	Attenuation (dB ± 15%)	Min. Return Loss (dB)	Min. NEXT Worst Pair (dB)
1	2,40	20,0	65,3
4	4,90	23,0	56,3
8	6,90	24,5	51,8
10	7,80	25,0	50,3
16	9,90	25,0	47,3
20	11,10	25,0	45,8
25	12,50	24,2	44,3
31,25	14,10	23,3	42,9
62,5	20,40	20,7	38,4
100	26,40	19,0	35,3

*Installation length up to 100m acc. to Cat5e standards.

Specification

Part Number	Inner Jacket Diameter [mm nom.]	Overall Diameter [mm nom.]	Connector for use over inner jacket	Connector for use over outer jacket
2485	5,10	7,50	P88RB50S	PGSXL

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CAT6.A S/FTP 24/7awg
Upjacketed Tactical Ethernet

Event® **studio** Event® **tour**

Application

Tactical ethernet cable for touring and other portable applications. The compounds used in the unique dual jacket make the cable supple and agile. Outer jacket can be removed easily to allow termination to our XL shielded RJ45 PGSXL connectors on the inner sheath in conjunction with our PS2BK8 strain relief boot or will fit comfortably inside the Neutrik etherCON™ Cable Connector Carrier. For direct termination to the outer sheath our Tool-less field connectors PGSMC can be used . Suitable for run lengths of up to 100m.

etherCON™ is a registered trademark of Neutrik.

Cable Design

Conductor .....Stranded tinned copper wire, 24 awg (7/0,202mm)
Insulation .....Cellular PO : Ø 1,40 mm nom.
Pairs Identification .....WH/BU - WH/OG - WH/GN - WH/BN
Pair Screen .....Aluminium/polyester taped pairs
Cable core .....4 screened pairs cabled together
Overall Shield .....Tinned copper wire braid. 50% nom. coverage
Inner Jacket .....Special Black PVC : Ø 7,70 mm nom.
Outer Jacket .....Special Soft Black TPM : Ø 8,50 mm nom.

Specification

Part Number	Inner Jacket Diameter [mm nom.]	Overall Diameter [mm nom.]	Weight [kg/km]	Connector for use over inner jacket	Run Length [m]
4902	7,70	8,50	70	PGSXL	100

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CAT6.A S/FTP 24/7awg
Upjacketed Tactical Ethernet

Performance

Frequency Range:	1 - 500 MHz
Coupling Attenuation:	Type I
DC Resistance:	93 Ω/km nom.
Max. Resistance Unbalance:	2 %
Capacitance Unbalance:	1.2 pF/m max.
Velocity of Propagation:	78 % nom.
Propagation Delay Skew:	25 ns/100m max.
Dielectric Strength:	500 V/minute
Dielectric Strength to Shield:	500 V/minute
Min. Insulation Resistance :	5 GΩ • km
Min. Bend Radius:	55 mm
Operating Temperature:	- 35 °C to + 70 °C

Freq. (MHz)	Attenuation (dB/100m) 20°C		PS NEXT Loss (dB)		NEXT Loss (dB)		RL (dB)		PS ANEXT (dB)		PS ELFEXT (dB)		ELFEXT (dB)	
	Typ.	*Cat.6A*	*Typ.*	*Cat.6A*	*Typ.*	*Cat.6A*	*Typ.*	*Cat.6A*	*Typ.*	*Cat.6A*	*Typ.*	*Cat.6A*	*Typ.*	*Cat.6A*
1	3.0	3.1	95	72.3	98	75.3	22	20	70	67	85	65	88	68
4	5.6	5.8	95	63.3	98	66.3	25	23	70	67	73	53	76	56
10	8.7	9.0	95	57.3	98	60.3	28	25	70	67	65	45	68	48
20	12.4	12.8	90	52.8	93	55.8	28	25	70	67	59	39	62	42
30	15.3	15.8	85	50.1	88	53.1	27	23.8	70	67	55.4	35.4	58.4	38.4
100	29.0	29.9	80	42.3	83	45.3	24	21.1	67	62.5	45	25	48	28
150	36.2	37.4	78	39.7	81	42.7	22	18.8	66	59.8	41.5	21.5	44.5	24.5
200	42.5	43.8	78	37.8	81	40.8	21	18	65	58	49	19	52	22
250	48.2	49.7	72	36.3	78	39.3	20	17.3	63	56.5	37	17	40	20
300	53.4	55.1	75	35.1	78	38.1	19	17.3	62	55.3	35.5	15.5	38.5	18.5
400	63.1	65.1	70	33.3	73	36.3	19	17.3	61	53.4	33	13	36	16
500	71.9	74.0	70	31.8	73	34.8	19	17.3	59	52	31	11	34	14

**Supplied cables meet the minimum Cat. 6A transmission requirements as per IEC 61156-6 Ed. 2*

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CAT.7 SU/FTP Tactical Ethernet <1000MHz> PUR FHF

EVent® **studio** EVent® **tour**

Application

Flexible data cable for analogue and digital signal transmission in the frequency range up to 1000 MHz. Very robust due to use of stranded wires for link lengths up to 100 m. Use: IEEE 802.3: 10/100/1000/10GBase-T; IEEE 802.5: FDDI, ISDN, ATM, PoE

Cable Design

Conductor .....Bare copper wire (23/7awg)
Core Insulation .....SFS-PE
Core Stranding .....cores twisted to pairs
Pairs Identification .....WHBU/BU - WHOG/OG - WHGN/GN - WHBN/BN
Pair Screen .....Individual Aluminium/polyester tape
Cable lay up .....4 shielded pairs stranded
Overall Screen .....Tinned copper wire braid
Sheath .....PUR FHF : Ø 8,0 mm approx.

Specification

Part Number	Type
6485	EventSeries® CAT.7 SU/FTP Tactical Ethernet <1000MHz> PUR FHF

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CAT.7 SU/FTP Tactical Ethernet
<1000MHz> PUR FHF

Electrical Data @ 20°C

Loop resistance max. (acc. to VDE 0812)	29 Ω/100m
Insulation resistance min. (20°C)	2 GΩ x km
Characteristic Impedance 100 MHz	100 ± 5 Ω
Transfer Impedance max. (10 MHz)	5 mΩ/m
Mutual Capacitance nom.	45 nF/km
Relative propagation velocity ca.	0,78 c
Screen attenuation ≤ 1000 MHz min.	85 dB
Test voltage	700 V-AC

Frequency (MHz)	Attenuation (dB/100m) Nom.	NEXT (dB) Nom.	ACR (dB/100m) Nom.	EL-FEXT (dB/100m) Nom.	Return Loss (dB) Nom.
1	1,8	100	98,2	95	25
4	3,4	100	96,6	93	28
10	5,4	100	94,6	92	30
16	6,8	100	93,2	91	30
20	7,6	100	92,4	90	30
31.25	9,7	100	90,3	86	30
62.5	14,0	98	84,0	82	30
100	17,8	95	77,2	77	30
155	22,3	92	69,7	73	28
200	25,4	89	63,6	70	27
300	31,4	82	50,6	67	25
400	36,5	79	42,5	64	24
500	40,5	77	36,5	62	23
600	45,2	75	29,8	60	23
800	52,0	72	20,0	56	21
900	57,3	71	13,7	53	20
1000	60,3	70	9,7	50	19

The performance data given are typical measured values

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5001B
Cat.6 U/UTP FRLSZH B2ca

Application

This cable is used in data communication networks with 250 MHz bandwith capacity where Low Smoke Zero Halogen is required.

-Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

-IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;

-IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Cable Design

Conductor ..... Solid bare copper wire, Ø 0.55 mm (AWG23/1)

Insulation ..... HDPE, Ø 0.98 ± 0,05 mm

Twisting ..... 2 cores to the pair

Cable lay up ..... 4 pairs cabled with central X-Filler

Sheath ..... FRLSZH

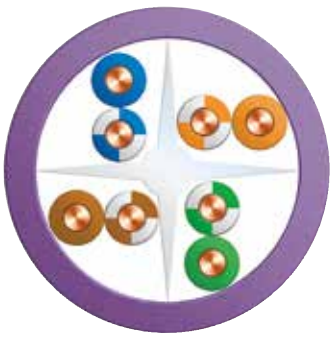
Overall Diameter ..... Ø 6,50 ± 0,4 mm

Pair Identification..... 1 - White- Blue /Blue, 2 - White-Orange /Orange
3 - White-Green /Green, 4 - White- Brown /Brown

Outer Jacket Colour.. 5001B-09 = Violet
5001B-15 = Ivory

Standards

- ISO/IEC11801
- TIA-568-C.2
- CPR Class - B2ca,s1,d1,a1



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5001B
Cat.6 U/UTP FRLSZH B2ca

Electrical Characteristics (20°C)

Characteristic Impedance 1 - 250 MHz	100 ± 15 Ohm
Delay Skew 1- 250 MHz	≤ 45 ns/100m
DC Resistance max.	9,38 Ohm/100m
DC Conductor Resistance Unbalance max.	5 %

Technical Performance 100m

Frequency	RL	ATT	NEXT	PHASE DELAY	PSNEXT	ELFEXT	PSELFEXT
MHz	≥ dB	≤ dB	≥ dB	≤ ns	≥ dB	≥ dB	≥ dB
1	20	2,03	74,3	570	72,3	67,8	64,8
4	23	3,78	65,3	552	63,3	55,8	52,8
8	24,5	5,32	60,8	546,73	58,8	49,7	46,7
10	25	5,95	59,3	545,38	57,3	47,8	44,8
16	25	7,55	56,2	543	54,2	43,7	40,7
20	25	8,47	54,8	542,05	52,8	41,8	38,8
25	24,3	9,51	53,3	541,20	51,3	39,8	36,8
31,25	23,6	10,67	51,9	540,44	49,9	37,9	34,9
62,5	21,5	15,38	47,4	538,55	45,4	31,9	28,9
100	20,1	19,80	44,3	537,60	42,3	27,8	24,8
200	18	28,98	39,8	536,54	37,8	21,8	18,8
250	17,3	32,85	38,3	536,27	36,3	19,8	16,8

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5007B
Cat.6 F/UTP FRLSZH B2ca

B2ca

Event® install

Application

This cable is used in data communication networks with 250 MHz bandwith capacity where Low Smoke Zero Halogen is required.

-Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

-IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;

-IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Cable Design

Conductor ..... Solid bare copper wire, Ø 0.55 mm (AWG23/1)

Insulation ..... HDPE, Ø 1.12 ± 0,05 mm

Twisting ..... 2 cores to the pair

Cable lay up ..... 4 pairs cabled with central X-Filler

Shield ..... Aluminium/polyester tape + Drain Wire

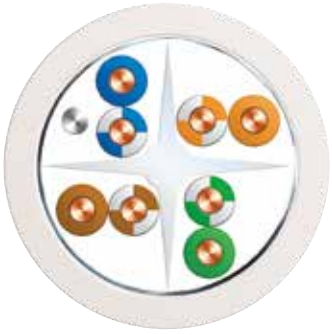
Sheath ..... FR-LSZH, Ivory (0,65 ± 0,2mm thickness)

Overall Diameter ..... Ø 7,50 ± 0,4 mm

Pair Identification..... 1 - White- Blue /Blue, 2 - White-Orange /Orange
3 - White-Green /Green, 4 - White- Brown /Brown

Standards

- ISO/IEC11801
- TIA-568-C.2
- CPR Class - B2ca,s1,d1,a1



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5007B

Cat.6 F/UTP FRLSZH B2ca

Electrical Characteristics (20°C)

Characteristic Impedance 1-250 MHz	100 ± 15 Ohm
Delay Skew 1-250 MHz	≤ 45 ns/100m
Unbalanced-to-ground capacitance max.	330 pF/100m
DC Resistance max.	9,38 Ohm/100m
DC Conductor Resistance Unbalance max.	5 %

Technical Performance 100m

Frequency	RL	ATT	NEXT	DELAY	PSNEXT	ELFEXT	PSELFEXT
MHz	≥ dB	≤ dB	≥ dB	≤ ns	≥ dB	≥ dB	≥ dB
1	20	-	74,3	570	72,3	67,8	64,8
4	23	3,78	65,3	552	63,3	55,8	52,8
8	24,5	5,32	60,8	546,73	58,8	49,7	46,7
10	25	5,95	59,3	545,38	57,3	47,8	44,8
16	25	7,55	56,2	543	54,2	43,7	40,7
20	25	8,47	54,8	542,05	52,8	42,8	38,8
25	24,3	9,51	53,3	541,20	51,3	39,8	36,8
31,25	23,6	10,67	51,9	540,44	49,9	37,9	34,9
62,5	21,5	15,38	47,7	538,55	45,4	31,9	28,9
100	20,1	19,80	44,3	537,60	42,3	27,8	24,8
200	18	28,98	39,8	536,54	37,8	21,8	18,8
250	17,3	32,65	38,3	536,27	36,3	19,8	16,8

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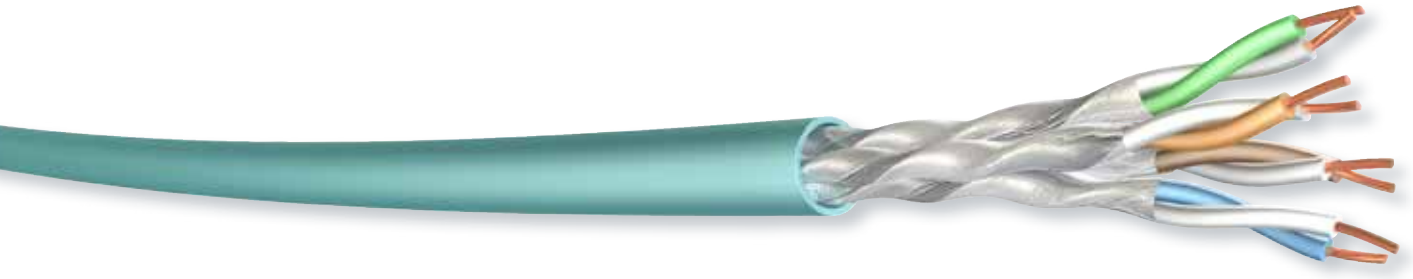
7293B

Cat6a U/FTP FRLSZH B2ca



Application

This cable is used in data communication networks with 500 MHz bandwith capacity where Low Smoke Zero Halogen is required.
-Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
-IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
-IEEE 802.5 16 MB; ISDN; FDDI; ATM
-Power over Ethernet (PoE) / PoE+

Cable Design

Conductor ..... Solid bare copper wire, Ø 0.56 mm (AWG23/1)

Insulation ..... Skin-foam-skin PE, Ø 1.33 ± 0,05 mm

Twisting ..... 2 cores to the pair

Pair screen ..... Aluminium/Mylar tape + tinned drain wire

Cable lay up ..... 4 pairs (PiMF) to the core

Sheath ..... FRLSZH, Blue 5024

Overall Diameter ..... Ø 7,60 ± 0,5 mm

Pair Identification..... 1 - White/Blue, 2 - White/Orange
3 - White/Green, 4 - White/Brown

Standards

- ISO/IEC11801
- TIA-568-C.2
- CPR Class - B2ca,s1,d1,a1

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7293B
Cat6a U/FTP FRLSZH B2ca

Electrical Characteristics (20°C)

Impedance 1 - 250 MHz	100 ± 15 Ohm
Impedance 250 - 500 MHz	100 ± 22 Ohm
Delay Skew 1- 500 MHz	≤ 45 ns/100m
Unbalanced-to-ground capacitance max.	330 pF/100m
DC Resistance max.	9,38 Ohm/100m
DC Conductor Resistance Unbalance max.	5 %

Technical Performance 100m

Frequency	RL	ATT	NEXT	PHASE DELAY	PSNEXT	ELFEXT	PSELFEXT
MHz	≥ dB	≤ dB	≥ dB	≤ ns	≥ dB	≥ dB	≥ dB
1	20	-	74,3	570	72,3	67,8	64,8
4	23	3,8	65,3	552	63,3	55,8	52,8
8	24,5	5,3	60,8	547	58,8	49,7	46,7
10	25	5,9	59,3	545	57,3	47,8	44,8
16	25	7,5	56,2	543	54,2	43,7	40,7
20	25	8,4	54,8	542	52,8	41,8	38,8
25	24,3	9,4	53,3	541	51,3	39,8	36,8
31,25	23,6	10,5	51,9	540	49,9	37,9	34,9
62,5	21,5	15,0	47,4	539	45,4	31,9	28,9
100	20,1	19,1	44,3	538	42,3	27,8	24,8
200	18	27,6	39,8	537	37,8	21,8	18,8
250	17,3	31,1	38,3	536	36,3	19,8	16,8
300	16,8	34,3	37,1	536	35,1	18,3	15,3
400	15,9	40,1	35,3	536	33,3	15,8	12,8
500	15,2	45,3	33,8	536	31,8	13,8	10,8

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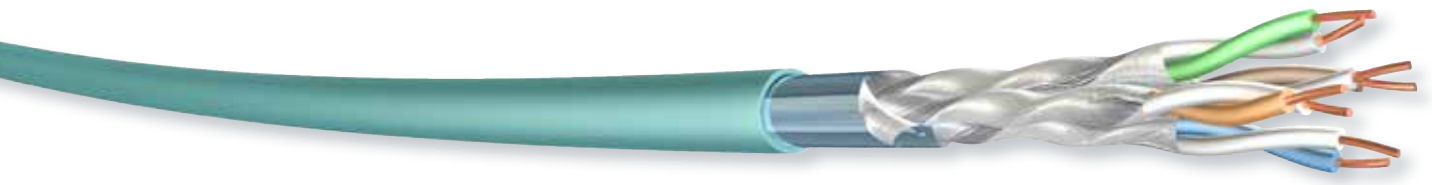
7295B
Cat6a F/FTP FRLSZH B2ca

B2ca

Event® install



Application

This cable is used in data communication networks with 500 MHz bandwith capacity where Low Smoke Zero Halogen is required.
-Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
-IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
-IEEE 802.5 16 MB; ISDN; FDDI; ATM
-Power over Ethernet (PoE) / PoE+

Cable Design

Conductor ..... Solid bare copper wire, Ø 0.56 mm (AWG23/1)

Insulation ..... Skin-foam-skin PE, Ø 1.33 ± 0,05 mm

Twisting ..... 2 cores to the pair

Pair screen ..... Aluminium/Mylar tape

Cable lay up ..... 4 pairs (PiMF) to the core

Overall screen..... Aluminium/Mylar tape + TC drain wire

Sheath ..... FRLSZH, Blue 5024

Overall Diameter ..... Ø 7,60 ± 0,5 mm

Pair Identification..... 1 - White/Blue, 2 - White/Orange
3 - White/Green, 4 - White/Brown

Standards

- ISO/IEC11801
- TIA-568-C.2
- CPR Class - B2ca,s1,d1,a1

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Electrical Characteristics (20°C)

Impedance 1 - 250 MHz	100 ± 15 Ohm
Impedance 250 - 500 MHz	100 ± 22 Ohm
Delay Skew 1- 500 MHz	≤ 45 ns/100m
Unbalanced-to-ground capacitance max.	330 pF/100m
DC Resistance max.	9,38 Ohm/100m
DC Conductor Resistance Unbalance max.	5 %

Technical Performance 100m

Frequency	RL	ATT	NEXT	PHASE DELAY	PSNEXT	ELFEXT	PSELFEXT
MHz	≥ dB	≤ dB	≥ dB	≤ ns	≥ dB	≥ dB	≥ dB
1	20	-	74,3	570	72,3	67,8	64,8
4	23	3,8	65,3	552	63,3	55,8	52,8
8	24,5	5,3	60,8	547	58,8	49,7	46,7
10	25	5,9	59,3	545	57,3	47,8	44,8
16	25	7,5	56,2	543	54,2	43,7	40,7
20	25	8,4	54,8	542	52,8	41,8	38,8
25	24,3	9,4	53,3	541	51,3	39,8	36,8
31,25	23,6	10,5	51,9	540	49,9	37,9	34,9
62,5	21,5	15,0	47,4	539	45,4	31,9	28,9
100	20,1	19,1	44,3	538	42,3	27,8	24,8
200	18	27,6	39,8	537	37,8	21,8	18,8
250	17,3	31,1	38,3	536	36,3	19,8	16,8
300	16,8	34,3	37,1	536	35,1	18,3	15,3
400	15,9	40,1	35,3	536	33,3	15,8	12,8
500	15,2	45,3	33,8	536	31,8	13,8	10,8

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7297B
Cat6a S/FTP FRLSZH B2ca

B2ca

Event® install

Application

This cable is used in data communication networks with 500 MHz bandwith capacity where Low Smoke Zero Halogen is required.
-Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
-IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
-IEEE 802.5 16 MB; ISDN; FDDI; ATM
-Power over Ethernet (PoE) / PoE+

Cable Design

Conductor ..... Solid bare copper wire, Ø 0.56 mm (AWG23/1)

Insulation ..... Skin-foam-skin PE, Ø 1.33 ± 0,05 mm

Twisting ..... 2 cores to the pair

Pair screen ..... Aluminium/Mylar tape

Cable lay up ..... 4 pairs (PiMF) to the core

Overall screen..... Tinned copper wire braid ≥ 40% coverage

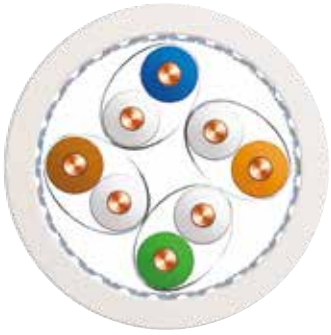
Sheath ..... FRLSZH, Ivory

Overall Diameter ..... Ø 7,50 ± 0,5 mm

Pair Identification..... 1 - White/Blue, 2 - White/Orange
3 - White/Green, 4 - White/Brown

Standards

- ISO/IEC11801
- TIA-568-C.2
- CPR Class - B2ca



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Cat6a S/FTP FRLSZH B2ca

Electrical Characteristics (20°C)

Impedance 1 - 250 MHz	100 ± 15 Ohm
Impedance 250 - 500 MHz	100 ± 22 Ohm
Delay Skew 1- 500 MHz	≤ 45 ns/100m
Unbalanced-to-ground capacitance max.	330 pF/100m
DC Resistance max.	9,38 Ohm/100m
DC Conductor Resistance Unbalance max.	5 %

Technical Performance 100m

Frequency	RL	ATT	NEXT	DELAY	PSNEXT	ELFEXT	PSELFEXT
MHz	≥ dB	≤ dB	≥ dB	≤ ns	≥ dB	≥ dB	≥ dB
1	20	-	74,3	570	72,3	67,8	64,8
4	23	3,8	65,3	552	63,3	55,8	52,8
8	24,5	5,3	60,8	546,7	48,8	49,7	46,7
10	25	5,9	59,3	545,5	57,3	47,8	44,8
16	25	7,5	56,2	543	54,2	43,7	40,7
20	25	8,4	54,8	542,1	52,8	41,8	38,8
25	24,3	9,4	53,3	541,2	51,3	39,8	36,8
31,25	23,6	10,5	51,9	540,4	49,9	37,9	34,9
62,5	21,5	15,0	47,4	538,6	45,4	31,9	28,9
100	20,1	19,1	44,3	537,6	42,3	27,8	24,8
200	18	27,6	39,8	536,5	37,8	21,8	18,8
250	17,3	31,1	38,3	536,3	36,3	19,8	16,8
300	16,8	34,3	37,1	536,1	35,1	18,3	15,3
500	15,2	45,3	33,8	535,6	31,8	13,8	10,8

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7475B
Cat.7 S/FTP FRLSZH B2ca

B2ca

Event® install

Application

This cable is used in data communication networks with 1000 MHz bandwith capacity where Low Smoke Zero Halogen is required.
-Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
-IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
-IEEE 802.5 16 MB; ISDN; FDDI; ATM
-Power over Ethernet (PoE) / PoE+

Cable Design

Conductor	Solid bare copper wire, Ø 0.56 mm (AWG23/1)
Insulation	Skin-foam-skin PE
Twisting	2 cores to the pair
Pair screen	Aluminium/Mylar tape
Cable lay up	4 pairs (PiMF) to the core
Overall screen	Tinned copper wire braid
Sheath	FRLSZH, Orange UV Resistant acc. ISO 4892-3-1
Overall Diameter	Ø 7,30 ± 0,20 mm
Pair Identification	1 - White/Blue, 2 - White/Orange 3 - White/Green, 4 - White/Brown

Standards

- ISO/IEC11801
- TIA-568-C.2
- CPR Class - B2ca

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7475B
Cat.7 S/FTP FRLSZH B2ca

Electrical Characteristics (20°C)

Max. Conductor Resistance	< 9.5 Ω / km
Max. Resistance Unbalance	< 2 %
Min. Insulation Resistance	5000 MΩ x m
Mutual Capacitance	56 pF / m
Impedance at 100 MHz	100 ± 5 Ω
Velocity of Propagation	76 %
Delay Skew	25 ns / 100 m
Transfer Impedance at 1 MHz	< 10 mΩ/km
Transfer Impedance at 10 MHz	< 10 mΩ/km
Transfer Impedance at 30 MHz	< 30 mΩ/km
Segregation Class	D
Test Voltage	1000 V
Operating Voltage	125 V

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	EL-FEXT (dB/100m)	Return Loss (dB)
1	2,0	104	99	95	24
4	4,0	104	97	93	30
10	4,9	101	95	92	32
100	17,3	100	83	77	34
250	28,2	95	63	70	27
500	42,0	95	56	62	24
600	44,0	88	45	60	22
800	55,5	83	28	56	20
900	57,3	80	23	53	18
1000	59,1	77	23	50	18

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Fibre Optic Cables

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100-105

Fibre Optic Cables offer users, higher bandwidth, greater distance and better quality of data transfer compared to copper cables which in some applications is absolutely vital to ensure continuous broadcasting.

Event® fibre optic cables also benefit from a minimum CPR level of Cca, meaning they can be used in venues where the most stringent regulations must be met. The Event range also includes outdoor grade cables suitable for reeling, de-reeling, touring and direct burial applications.

OFTC

Tight Buffered Fibre Optic LSZH CPR Cca

Cca

Event® install

Application

Lighter in weight and more flexible than loose-tube cable, tight-buffered cables offer the flexibility, direct connectability and design versatility necessary to satisfy the diverse requirements existing in high performance fibre optic applications.

Cable Design

Fibre Type G.652.D, OM1, OM2, OM3, OM4
Tight Buffer.....900µm Tight Buffer Halogen Free Flame Retardant (HFFR)
Core Binder.....Water-swellable Yarn
Strength elements .....Water-swellable Glass Yarn
Outer jacket .....LSZH Halogen Free Flame Retardant (HFFR) UV resistant
Euroclass Cca-s1a, d1, a1

Fibre Colour Code

Fibres colour code	1.Blue, 2.Orange,3.Green, 4.Brown,5.Slate, 6.White, 7.Red, 8.Black, 9.Yellow, 10.Violet, 11.Rose, 12.Aqua. **With ring mark ;** 1.Blue, 2.Orange,3.Green, 4.Brown,5.Slate, 6.White, 7.Red, 8.Black, 9.Yellow, 10.Violet, 11.Rose, 12.Aqua

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OFTC

Tight Buffered Fibre Optic LSZH CPR Cca

Specification

Part Number	N° of Fibres	Tensile Strength [N]	Weight [kg/km]	Overall Diameter [mm]
OFTC*04-UAZH	4	600	31	5,2
OFTC*06-UAZH	6	800	38	5,9
OFTC*08-UAZH	8	800	44	6,2
OFTC* 12-UAZH	12	800	53	7,1
OFTC* 16-UAZH	16	1200	61	7,6
OFTC* 24-UAZH	24	1200	76	8,8

* denotes fibre type required : 1=62.5/125 OM1 | 2 = 50/125 0M2 | 3 = 50/125 0M3 | 4 = 50/125 0M4 | 8 = 9/125 ITU-T G.652.D

e.g. 24 core single mode 9/125 = OFTC824-UAZH

Single Mode Fibre Characteristics *ITU-T G652D*

Attenuation	1310 nm	≤ 0,36	dB/km
Attenuation	1383 nm	≤ 0,36	dB/km
Attenuation	1550 nm	≤ 0,23	dB/km
Attenuation	1285÷1330 nm	≤ 0,40	dB/km
Attenuation	1530÷1565 nm	≤ 0,25	dB/km
Attenuation	1565÷1625 nm	≤ 0,27	dB/km

Multi Mode Fibre Characteristics

Parameter	62,5/125 µm	50/125 µm			Units
ISO/IEC 11801 Performance Category	OM1	OM2	OM3	OM4	
Attenuation @ 850 nm	< 3,2	≤ 2,8			dB/km
Attenuation @ 1300 nm	< 1,0	≤ 0,9			dB/km
Bandwidth @ 850 nm	≥ 200	≥ 500	≥ 1500	≥ 3500	MHz • km
Bandwidth @ 1300 nm	≥ 500	≥ 500	≥ 500	≥ 500	MHz • km
Effective Model Bandwidth @ 850 nm	N/A	N/A	≥ 2000	≥ 4700	MHz • km

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Event Deployable M-TAC Ruggedized Tactical Fibre Optic Cable (Certified by Neutrik®) Based on MIL-C-85045

Event® studio

opticalCON CERTIFIED

Event® tour

Description

Tight buffer cable for indoor / outdoor installation. Each fibre is protected with a 900 microns buffer. Strength members composed of aramid yarns. Based on MIL norms. Flexible and easy to install. Polyurethane outer sheath. Resistant to oils and grease. 900 microns buffers helps to reduce installation costs because each fibre can be directly connectorized.

Applications

- Cable for military applications

Characteristics

Fibre Type	SM (G.657.A) / MM (OM1 / OM2 / OM3 / OM4)
Fibre colour code	Blue – Orange - Green – Brown
Strength Members	Aramid Yarns
Outer Sheath	PUR – Matt Black
Max. Tensile Load (N)	600 (Operating) / 1100 (Installation) – (IEC 60794-1-21 E1)
Max. Crush (N/10cm)	4400 (IEC 60794-1-21 E3)
Max. Impact (J)	5 (IEC 60794-1-21 E4)
Temperature Range	-40ºC ~ +85ºC (Operation) / -10ºC ~ +85ºC (Installation) / -40ºC ~ +85ºC (Storage)
Min. Bending Radius (mm)	10 x Outer Ø (Operation) / 15 x Outer Ø (Installation) – (IEC 60794-1-21 E11)

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Event Deployable M-TAC Ruggedized Tactical Fibre Optic Cable (Certified by Neutrik®) Based on MIL-C-85045

Specification

Part Number	Fibre Count	Weight (Kg/Km)	Outer Ø (± 0,5 mm)
M-TAC-2-*	2	22	5,0
M-TAC-4-*	4	27	5,8

*indicates Fibre Type required : SM, OM1, OM2, OM3, OM4

Single Mode Fibre Characteristics *ITU-T G652D*

Attenuation	1310 nm	≤ 0,36	dB/km
Attenuation	1383 nm	≤ 0,36	dB/km
Attenuation	1550 nm	≤ 0,23	dB/km
Attenuation	1285÷1330 nm	≤ 0,40	dB/km
Attenuation	1530÷1565 nm	≤ 0,25	dB/km
Attenuation	1565÷1625 nm	≤ 0,27	dB/km

Multi Mode Fibre Characteristics

Parameter	62,5/125 µm	50/125 µm			Units
ISO/IEC 11801 Performance Category	OM1	OM2	OM3	OM4	
Attenuation @ 850 nm	< 3,2	≤ 2,8			dB/km
Attenuation @ 1300 nm	< 1,0	≤ 0,9			dB/km
Bandwidth @ 850 nm	≥ 200	≥ 500	≥ 1500	≥ 3500	MHz • km
Bandwidth @ 1300 nm	≥ 500	≥ 500	≥ 500	≥ 500	MHz • km
Effective Model Bandwidth @ 850 nm	N/A	N/A	≥ 2000	≥ 4700	MHz • km

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Lighting Power and Control Cables

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106-115

EventSeries Lighting power and control include cables for stage lighting in soft pliable materials , Low Smoke Zero Halogen , Harmonised rubber or heat resistant silicone.

FHL Lighting Control Cable

Event® studio Event® tour

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.

Cable Design

Conductor ..... Stranded bare copper wire, Class 5

Insulation ..... Soft Thermoplastic polymer

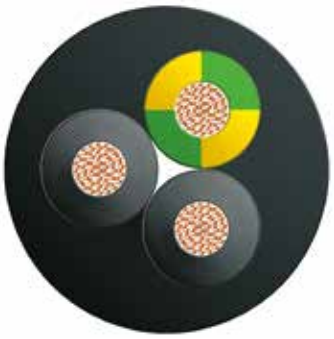
Assembly ..... Cores stranded in layers with filler if necessary

Core Identification ..... Number coded with Green/Yellow earth (Also available in Lighting Connector Rotation)

Outer Jacket ..... Soft Thermoplastic Polymer Matt

Electrical Data

Conductor Resistance	1.5mm²	<	13,3	Ω/km
Conductor Resistance	2.5mm²	<	7,98	Ω/km
Conductor Resistance	4.0mm²	<	4,95	Ω/km
Insulation Resistance			200	MΩ x km
Max. Working Voltage			300/500	V
Test Voltage		>	2	kV



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FHL Lighting Control Cable

Mechanical & Thermal Characteristics

Temperature Range - static	-30°C up to +70°C
Temperature Range - Operation	-5°C up to +70°C
Min. Bending Radius - flexing	7,5 x Ø
Min. Bending Radius - fixed	4 x Ø
Weight	see specification table

Specification

Cross Section	Part Number	No. of Cores x Cross Section [N° x mm²]	Overall Diameter [mm nom.]	Weight [kg/km]
	FHL315	3 x 1,5	8,30	113
	FHL325	3 x 2,5	10,00	170
	FHL1815	18 x 1,5	14,80	461
	FHL1825	18 x 2,5	18,10	683
	FHL184	18 x 4,0	19,75	1280

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ZHL Lighting Control Cable LSZH FireFighter®

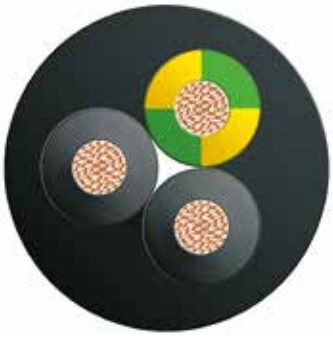
Cca

Event® install

Application

This range of Low Smoke Zero Halogen control cables have been designed for use as control and lighting installations including termination to "Socapex™" style 19pin lighting connectors where LSZH cables are specified. The use of extra supple compounds give them good flexibility and good mechanical resistance.

Cable Design



Conductor	Stranded bare copper wire, Class 5
Cross Section	1,50mm²
	2,50mm²
	4,0mm²
Insulation	LSZH FireFighter®
Assembly	Cores stranded in layers with filler if necessary
Core Identification	Number coded with Green/Yellow earth (Alternative colour code -JB)
Outer Jacket	LSZH FireFighter®

Electrical Data

Conductor Resistance - 1.5mm²	<	13,3	Ω/km
Conductor Resistance - 2.5mm²	<	7,98	Ω/km
Conductor Resistance - 4.0mm²	<	4,95	Ω/km
Insulation Resistance		200	MΩ x km
Max. Working Voltage		300/500	V
Test Voltage	>	2	kV

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ZHL Lighting Control Cable LSZH FireFighter®

Mechanical & Thermal Characteristics

Temperature Range - static	-30°C up to +70°C
Temperature Range - Operation	-5°C up to +70°C
Min. Bending Radius - flexing	7,5 x Ø
Min. Bending Radius - fixed	4 x Ø
Flame Retardant Test	IEC 60332-1-2, DIN EN 60332-1-2, BS EN 60332-1-2, EN 60332-1-2
Flame Propagation Test	IEC 60332-3-24, DIN EN 60332-3-24, BS EN 60332-3-24, EN 60332-3-24
Smoke Density Test	IEC 61034-2, VDE 0482-1034-2, EN 61034-2
Corrosive Gas Test	IEC 60754-2, VDE 0482-754-1-2, EN 60754-2
Halogen Free Test	IEC 60754-1, VDE 0482-754-2, EN 60754-2
Euroclass	Cca

Specification

Part Number	No. of Cores x Cross Section [N° x mm²]	Overall Diameter [mm] ± 10%	Weight [kg/km]
ZHL315 / ZHL315-JB	3 x 1,5	7,00	113
ZHL415	4 x 1,5	8,30	116
ZHL515	5 x 1,5	8,60	136
ZHL715	7 x 1,5	9,20	177
ZHL1215	12 x 1,5	12,40	302
ZHL1815	18 x 1,5	14,80	461
ZHL325 / ZHL325-JB	3 x 2,5	10,00	170
ZHL725	7 x 2,5	11,45	295
ZHL1225	12 x 2,5	14,65	433
ZHL1825	18 x 2,5	18,00	683
ZHL184	18 x 4,0	22,30	1280

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ZHLB

4BSeries LSZH FireFighter® Control Cable IEC60332-3-24 B2ca 300/500V Black

B2ca

Event® install

Application

A range of flexible LSZH insulated and sheathed control cables manufactured to VDE specifications. Suitable for multiple applications including Speaker, Lighting, Stage, HVAC & Public Address control, instrumentation, and electronic applications.
This LSZH range is ideally suited for applications in close confinement areas where public health and safety are paramount, where it's critical to protect people and equipment from toxic and corrosive gases in the event of a fire. Extended testing to B2ca helping to prevent loss of life in the event of fire.

Cable Design

Conductor ..... Stranded bare copper wire, Class 5
Insulation ..... LSZH FireFighter®
Assembly ..... Cores stranded in layers with filler if necessary
Outer Jacket..... LSZH FireFighter®

Core Identification: (please see specification table)

OZ .....Number coded without Green/yellow earth conductor
JZ.....Number coded with Green/yellow earth conductor
OB .....Colour coded without Green/yellow earth conductor
JB.....Colour coded with Green/yellow earth conductor

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ZHLB

4BSeries LSZH FireFighter® Control Cable IEC60332-3-24 B2ca 300/500V Black

Fire Behaviour

Flame Retardant Test	IEC 60332-1-2, DIN EN 60332-1-2, BS EN 60332-1-2, EN 60332-1-2
Flame Propagation Test	IEC 60332-3-24, DIN EN 60332-3-24, BS EN 60332-3-24, EN 60332-3-24
Smoke Density Test	IEC 61034-2, VDE 0482-1034-2, EN 61034-2
Corrosive Gas Test	IEC 60754-2, VDE 0482-754-1-2, EN 60754-2
Halogen Free Test	IEC 60754-1, VDE 0482-754-2, EN 60754-2
Euroclass	B2ca s1, d1, a1

Electrical Characteritics

Conductor Resistance - 0.75 mm^2	<	26,0	Ω/km
Conductor Resistance - 1.0 mm^2	<	19,5	Ω/km
Conductor Resistance - 1.5 mm^2	<	13,3	Ω/km
Conductor Resistance - 2.5 mm^2	<	7,98	Ω/km
Conductor Resistance - 4.0 mm^2	<	4,95	Ω/km
Insulation Resistance		200	MΩ x km
Max. Working Voltage		300/500	V
Test Voltage	>	2	kV

Mechanical & Thermal Characteristics

Temperature Range - static	-30°C up to +70°C
Temperature Range - Operation	-5°C up to +70°C
Min. Bending Radius - flexing	7,5 x Ø
Min. Bending Radius - fixed	4 x Ø

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ZHLB

4BSeries LSZH FireFighter® Control Cable IEC60332-3-24 B2ca 300/500V Black

Specification

No. of Cores and Size [mm²)	Core Identification	Overall Diameter [mm] ± 10%	Weight [kg/km]	Part Number
2 x 0,75	OB or OZ	5,3	46	ZHLB275
2 x 1,0	OB or OZ	5,6	60	ZHLB210
2 x 1,5	OB or OZ	6,4	70	ZHLB215
2 x 2,5	OB or OZ	7,8	112	ZHLB225
2 x 4,0	OB or OZ	9,2	150	ZHLB240
3 x 0,75	JB	5,6	54	ZHLB375
3 x 1,0	JB	6,1	72	ZHLB310
3 x 1,5	JB or JZ	6,8	90	ZHLB315
3 x 2,5	JB or JZ	8,3	148	ZHLB325
3 x 4,0	JB or JZ	10,0	210	ZHLB340
4 x 1,5	JZ	7,6	109	ZHLB415
4 x 2,5	JZ	9,2	178	ZHLB425
4 x 4,0	JZ	10,8	248	ZHLB440
5 x 1,5	JZ	8,3	131	ZHLB515
5 x 2,5	JZ	10,1	221	ZHLB525
7 x 1,5	JZ	9,2	184	ZHLB715
7 x 2,5	JZ	11,2	306	ZHLB725
12 x 1,5	JZ	12,2	272	ZHLB1215
12 x 2,5	JZ	15,1	480	ZHLB1225
18 x 1,5	JZ	14,8	386	ZHLB1815
18 x 2,5	JZ	18,0	683	ZHLB1825
25 x 1,5	JZ	17,8	620	ZHLB2515
25 x 2,5	JZ	21,5	1024	ZHLB2525

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Microphone & Instrument Cables

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116-123

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 , realising how important it is that a microphone cable is soft and pliable even at low temperatures whist remaining flexible EventSeries raw materials are carefully chosen . The use of Kevlar threads are incorporated in the manufacturing process adding to the overall strength of the finished cable.

OFC AES/EBU Digital Microphone Cable

Event® studio Event® tour

Application

MLX2 is a professional grade oxygen free Digital microphone cable. It has a "LAP"(spiral) 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.
The usage of cables on stages often requires contradictory specifications to the lines used. Flexibility and at the same time robustness in relation to extremely high mechanical stress are needed.

The most frequent applications for this symmetrical cable are mobile wiring of digital equipment and patch boards for professional audio engineering.

The characteristic impedance of 110 ohm makes it suitable for digital symmetrical sound transmission according to the AES3 standard as well as the transmission of DMX signals.

Cable Design

Conductor ..... Oxygen Free Stranded Copper (28 x 0,10mm) 0,22m2
Insulation ..... TPM Ø 1,50 mm
Pair ..... 1 pair (Red / Blue)
Strain relief ..... Kevlar strength member with cotton fillers
Shield ..... Bare copper spiral screen (nom. coverage 100 %)
Outer Jacket ..... TPM Ø 6,35 mm
Colour ..... Black

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OFC AES/EBU Digital Microphone Cable

Electrical Characteristics

Characteristic Impedance	nom.	110	Ohm
Capacitance (core/core)	nom.	90	pF/m
Capacitance (core/screen)	nom.	180	pF/m
Attenuation (1 MHz)	nom.	2,4	dB/100m
Velocity Ratio	nom.	0,76	
Resistance (core)	max.	85	Ohm/km
Resistance (screen)	max.	35	Ohm/km
Insulation Resistance	min.	> 100	Mohm x km

Thermal & Mechanical Characteristics

Operating Temperature	-30 to +70	°C
Flame Retardant	IEC 60332-1	
Bending Radius (+20°C)	40	mm (min.)
Bending Radius (-25°C)	70	mm (min.)
Total Weight	4,6	kg/100m

Specification

Part Number	Overall Diameter mm	Weight kg/100m	Colour
MLX2-01	6,35	4,6	Black
MLX2-02	6,35	4,6	Blue
MLX2-03	6,35	4,6	Green
MLX2-04	6,35	4,6	Red
MLX2-05	6,35	4,6	Grey
MLX2-06	6,35	4,6	Yellow
MLX2-08	6,35	4,6	Orange
MLX2-09	6,35	4,6	Violet

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OFC Professional Starquad Microphone Cable MLX4

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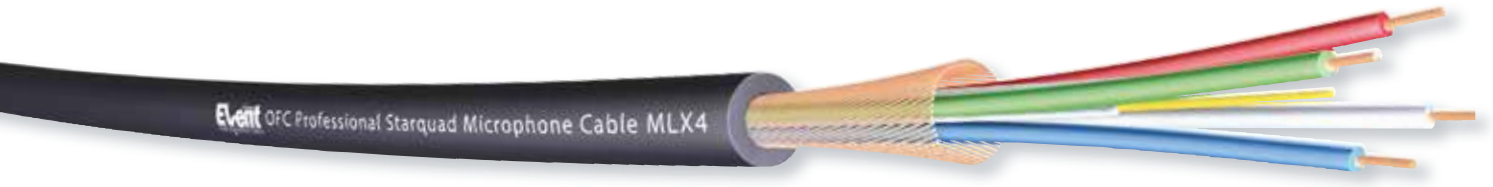

Application

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.

Cable Design

Conductor .....Oxygen Free Copper (28 x 0,10mm) 0,22m^2

Insulation .....Special Polymer

Pair.....2 pairs twisted to a starquad formation (Red / Blue / Green / White)

Strain relief.....Kevlar strength member with cotton fillers

Shield .....Bare copper spiral screen

Outer Jacket.....TPM

Outer Jacket Colour.....see specification table

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OFC Professional Starquad Microphone Cable MLX4

Technical Data

Nom. Capacitance (cond./cond.)		90	pF/m
Nom. Capacitance (cond./cond./screen)		180	pF/m
Conductor Resistance		85	Ω/km
Insulation Resistance		20	MΩ*km
Operating Voltage		50/75	V AC/DC
Test Voltage (core:core at 50Hz eff. for 1 minute)	>	1,2	kV
Test Voltage (core:screen at 50Hz eff. for 1 minute)	>	1	kV

Specification

Part Number	Overall Diameter [mm]	Colour
MLX4-01	7,0 ± 0,25	Black
MLX4-02	7,0 ± 0,25	Blue
MLX4-04	7,0 ± 0,25	Red

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Instrument Cable For Guitar, Keyboard and Line Level Devices

Event® **studio** Event® **tour**

Application

Professional low capacitance unbalanced double shielded audio/instrument cable suitable for interconnection of guitars , keyboards and other instruments or line level devices . The double shielding of high density copper lap screen with special semi conductive layer helps to provide immunity from noise .The enlarged outer sheath of technical polymer allows the cable to remain flexible , kink resistant but extremely robust.

Cable Design

Conductor	Stranded bare copper 0,22 mm²
Stranding	28 x 0,10 mm
Insulation	Special Foam-PE
Conductive Layer	Conductive compound, black
Shielding	Bare copper spiral screen, 90% min. coverage
Jacket	TPM
Jacket colour	see specification table

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Instrument Cable For Guitar, Keyboard and Line Level Devices

Performance

Test Voltage (at 50Hz eff. for 1 Min.)	> 1 kV
Insulation resistance (min.)	20 MOhm x km at 20°C
Conductor resistance (max.)	85 Ohm/km at 20°C
Capacitance C/S (approx.)	100 pF/m at 1 kHz
Operating Voltage (max.)	50/75 V AC/DC
Temperature range static	-30°C to +70°C
Temperature range operating	-20°C to +70°C

Specification

Part Number	Overall Diameter [mm]	Colour
ICEX1-01	6,20 ± 0,20	Black
ICEX1-02	6,20 ± 0,20	Blue
ICEX1-03	6,20 ± 0,20	Green
ICEX1-04	6,20 ± 0,20	Red
ICEX1-05	6,20 ± 0,20	Grey
ICEX1-06	6,20 ± 0,20	Yellow
ICEX1-08	6,20 ± 0,20	Orange
ICEX1-09	6,20 ± 0,20	Violet

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Speaker Cables

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124-145

Event Series® speaker cables are available as soft pliable tour grade or FireFighter® Low Smoke Zero Halogen for the professional audio installer. Our 500Series "In Wall " with FireFighter® LSZH as standard for Home & Building automation Installers or parallel versions for the HiFi enthusiast.

Professional Tour Grade Speaker Cable VHP

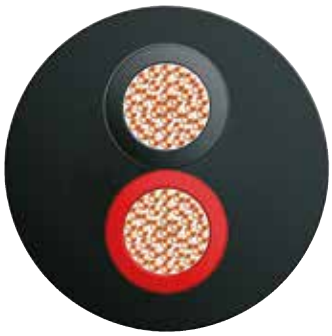
Event® **studio** Event® **tour**

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.

Cable Design

Conductor ..... Stranded Oxygen Free Copper
Insulation ..... TPM
No. of Cores ..... 2, 4 or 8 cores cabled together
Outer Jacket ..... TPM
Outer Jacket Colour ..... Black



Characteristics

- Soft and pliable for touring applications

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Professional Tour Grade Speaker Cable VHP

Technical Data

Conductor Size (mm²)	1,50	2,50	4,0
Conductor Resistance	< 13,3	< 7,98	< 4,95
Max. Working Voltage		100 V	
Test Voltage		> 2000 V	
Min. Bending radius (single)		7 x Ø	
Min. Bending radius (multiple)		15 x Ø	

Specification

Part Number	Formation [N° of Cores x mm²]	Overall Diameter [mm [±10%]]
VHP215	2 x 1,50	6,25
VHP225	2 x 2,50	7,40
VHP425	4 x 2,50	10,25
VHP825	8 x 2,50	15,80
VHP240	2 x 4,0	9,10
VHP440	4 x 4,0	12,20
VHP840	8 x 4,0	18,40

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Professional Speaker Cable ZHP

Cca

Event® install

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.

Cable Design

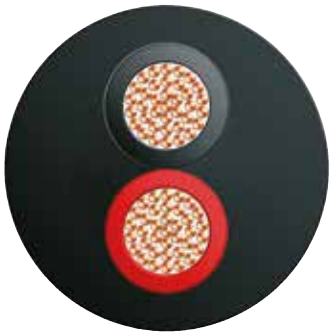
Conductor ..... Stranded Oxygen Free Copper

Insulation ..... LSZH FireFighter®

No. of Cores ..... 2, 4 or 8 cores cabled together

Outer Jacket ..... LSZH FireFighter® Black RAL 9005

Colour ..... see specification table



Characteristics

Flame Retardant Test - IEC 60332-1-2, DIN EN 60332-1-2, BS EN 60332-1-2, EN 60332-1-2

Flame Propagation Test - IEC 60332-3-24, DIN EN 60332-3-24, BS EN 60332-3-24, EN 60332-3-24

Smoke Density Test - IEC 61034-2, VDE 0482-1034-2, EN 61034-2

Corrosive Gas Test - IEC 60754-2, VDE 0482-754-1-2, EN 60754-2

Halogen Free Test - IEC 60754-1, VDE 0482-754-2, EN 60754-2

Flame Spread test for Single Cable - IEC 60332-1-2

Flame Spread Test for Bunched Cable - IEC 60332-3-24

Euroclass - Cca

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Professional Speaker Cable ZHP

Technical Data

Conductor Size (mm²)	0,75	1,0	1,50	2,50	4,0	6,0
Conductor Resistance [Ohm/km]	< 26,0	<19,5	<13,3	< 7,98	< 4,95	< 3,30
Current Load [A]	13	16	20	25	34	44
Insulation Resistance	20 MΩ x km at 20°C					
Operating Voltage	300/500 V					
Test Voltage AC	> 2000 V					
Min. Bending radius	10 x Ø					
Temperature Range (static)	-20°C up to +80°C					
Temperature Range (Operating)	-5°C up to +80°C					

Specification

Part Number	Formation [N° of Cores x mm²]	Overall Diameter [mm [± 10%]	Approx. Weight [kg/km]	Colour
ZHP2075	2 x 0,75	5,20	45	Black
ZHP210	2 x 1,0	5,60	53	Black
ZHP210-10	2 x 1,0	5,60	53	White
ZHP215	2 x 1,50	6,0	66	Black
ZHP215-10	2 x 1,50	6,0	66	White
ZHP415	4 x 1,50	7,30	105	Black
ZHP225	2 x 2,50	7,60	105	Black
ZHP225-10	2 x 2,50	7,60	105	White
ZHP425	4 x 2,50	9,0	165	Black
ZHP825	8 x 2,50	12,10	290	Black
ZHP240	2 x 4,0	8,80	150	Black
ZHP440	4 x 4,0	10,20	230	Black
ZHP840	8 x 4,0	13,60	410	Black
ZHP260	2 x 6,0	10,40	215	Black
ZHP460	4 x 6,0	13,00	429	Black

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Professional Speaker Cable ZHB

B2ca

Event® install

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.

Cable Design

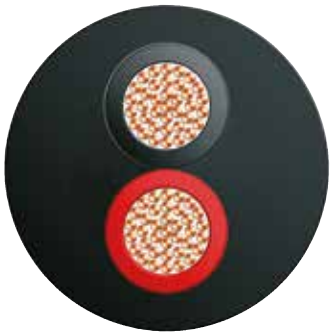
Conductor ..... Stranded Oxygen Free Copper

Insulation ..... LSZH FireFighter®

No. of Cores ..... 2, 4 or 8 cores cabled together

Outer Jacket ..... LSZH FireFighter®

Colour ..... see specification table



Characteristics

Flame Retardant Test - IEC 60332-1-2, DIN EN 60332-1-2, BS EN 60332-1-2, EN 60332-1-2

Flame Propagation Test - IEC 60332-3-24, DIN EN 60332-3-24, BS EN 60332-3-24, EN 60332-3-24

Smoke Density Test - IEC 61034-2, VDE 0482-1034-2, EN 61034-2

Corrosive Gas Test - IEC 60754-2, VDE 0482-754-1-2, EN 60754-2

Halogen Free Test - IEC 60754-1, VDE 0482-754-2, EN 60754-2

Flame Spread test for Single Cable - IEC 60332-1-2

Flame Spread Test for Bunched Cable - IEC 60332-3-24

Euroclass - B2ca-s1a, d1, a1

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Professional Speaker Cable ZHB

Technical Data

Conductor Size (mm²)	0,75	1,0	1,50	2,50	4,0	6,0
Conductor Resistance [Ohm/km]	< 26,0	<19,5	<13,3	< 7,98	< 4,95	< 3,30
Current Load [A]	13	16	20	25	34	44
Insulation Resistance	20 MΩ x km at 20°C					
Operating Voltage	300/500 V					
Test Voltage AC	> 2000 V					
Min. Bending radius	10 x Ø					
Temperature Range (static)	-20°C up to +80°C					
Temperature Range (Operating)	-5°C up to +80°C					

Specification

Part Number	Formation [N° of Cores x mm²]	Overall Diameter [mm [± 10%]	Approx. Weight [kg/km]	Colour
ZHB2075	2 x 0,75	5,20	45	Black
ZHB210	2 x 1,0	5,60	53	Black
ZHB210-10	2 x 1,0	5,60	53	White
ZHB215	2 x 1,50	6,0	66	Black
ZHB215-10	2 x 1,50	6,0	66	White
ZHB415	4 x 1,50	7,30	105	Black
ZHB225	2 x 2,50	7,60	105	Black
ZHB225-10	2 x 2,50	7,60	105	White
ZHB425	4 x 2,50	9,0	165	Black
ZHB825	8 x 2,50	12,10	290	Black
ZHB240	2 x 4,0	8,80	150	Black
ZHB440	4 x 4,0	10,20	230	Black
ZHB840	8 x 4,0	13,60	410	Black
ZHB260	2 x 6,0	10,40	215	Black
ZHB460	4 x 6,0	13,00	429	Black

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Professional Speaker Cable Dual Jacket Duct Grade

Event® install

Application

This range of speaker cables are specially designed for fixed installation in outdoor applications. PHP speaker cables use the standard internal LSZH construction but have a black UV resistant, weather resistant heavy duty PE Sheath. These cables are designed for any external application but are ideal for use in cable ducts where standing water may have affected the LSZH material. Where further protection or for direct burial we recommend our DataGuard versions which can be installed internally or externally.

Cable Design

Conductor ..... Stranded Oxygen Free Copper

Insulation ..... LSZH FireFighter®

No. of Cores ..... 2, 4 or 8 cores stranded

Inner Jacket ..... LSZH FireFighter®

Outer Jacket ..... PE (Polyethylene)

Colour ..... Black

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Professional Speaker Cable Dual Jacket Duct Grade

Technical Data

Conductor Size (mm²)	0,75	1,50	2,50	4,0	6,0
Conductor Resistance [Ohm/km]	< 26,0	<13,3	< 7,98	< 4,95	< 3,30
Current Load [A]	13	20	25	34	44
Insulation Resistance	20 MΩ x km at 20°C				
Operating Voltage	300/500 V				
Test Voltage AC	> 2000 V				
Min. Bending radius	10 x Ø				
Temperature Range (static)	-20°C up to +80°C				
Temperature Range (Operating)	-5°C up to +80°C				

Specification

Part Number	Formation [N° of Cores x mm²]	Inner Jacket Diameter [mm [± 10%]	Overall Diameter [mm [± 10%]
PHP2075	2 x 0,75	5,20	7,20
PHP215	2 x 1,50	6,0	8,0
PHP415	4 x 1,50	7,30	9,30
PHP225	2 x 2,50	7,60	9,60
PHP425	4 x 2,50	9,0	11,0
PHP825	8 x 2,50	12,10	14,10
PHP240	2 x 4,0	8,80	10,80
PHP440	4 x 4,0	10,20	12,20
PHP840	8 x 4,0	13,60	15,60
PHP260	2 x 6,0	10,40	12,40
PHP460	4 x 6,0	13,00	15,00

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Shielded Professional Speaker Cable ZHPS

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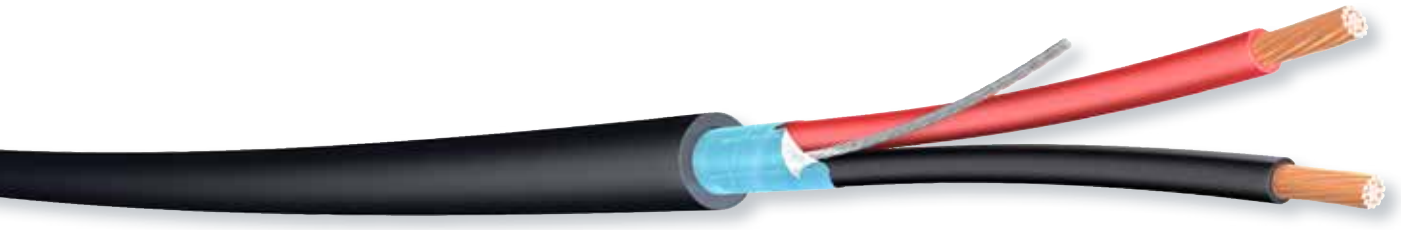

Application

These speaker cables are specially designed for fixed installation in public buildings where LSZH cables are specified and protection against electrical interference is required. The use of extra supple compounds give them good flexibility and good mechanical resistance.

Cable Design

Conductor ..... Stranded Oxygen Free Copper

Insulation ..... LSZH FireFighter®

No. of Cores ..... 2 or 4 cores cables together

Shield ..... Foil shield + 20awg tinned copper drain wire

Outer Jacket ..... LSZH FireFighter® Black RAL 9005

Characteristics

Flame Retardant Test - IEC 60332-1-2, DIN EN 60332-1-2, BS EN 60332-1-2, EN 60332-1-2

Flame Propagation Test - IEC 60332-3-24, DIN EN 60332-3-24, BS EN 60332-3-24, EN 60332-3-24

Smoke Density Test - IEC 61034-2, VDE 0482-1034-2, EN 61034-2

Corrosive Gas Test - IEC 60754-2, VDE 0482-754-1-2, EN 60754-2

Halogen Free Test - IEC 60754-1, VDE 0482-754-2, EN 60754-2

Flame Spread test for Single Cable - IEC 60332-1-2

Flame Spread Test for Bunched Cable - IEC 60332-3-24

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Shielded Professional Speaker Cable ZHPS

Technical Data

Conductor Size (mm²)	1,50	2,50	4,0
Conductor Resistance [Ohm/km]	<13,3	< 7,98	< 4,95
Current Load [A]	20	25	34
Insulation Resistance	20 MΩ x km at 20°C		
Operating Voltage	300/500 V		
Test Voltage AC	> 2000 V		
Min. Bending radius	10 x Ø		
Temperature Range (static)	-30°C up to +80°C		
Temperature Range (Operating)	-5°C up to +80°C		

Specification

Part Number	Formation [N° of Cores x mm²]	Overall Diameter [mm [± 10%]	Colour
ZHPS215	2 x 1,50	7,20	Black
ZHPS415	4 x 1,50	8,20	Black
ZHPS225	2 x 2,50	8,80	Black
ZHPS425	4 x 2,50	9,0	Black
ZHPS240	2 x 4,0	10,0	Black

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Duct Grade Shielded Professional Speaker Cable PHPS

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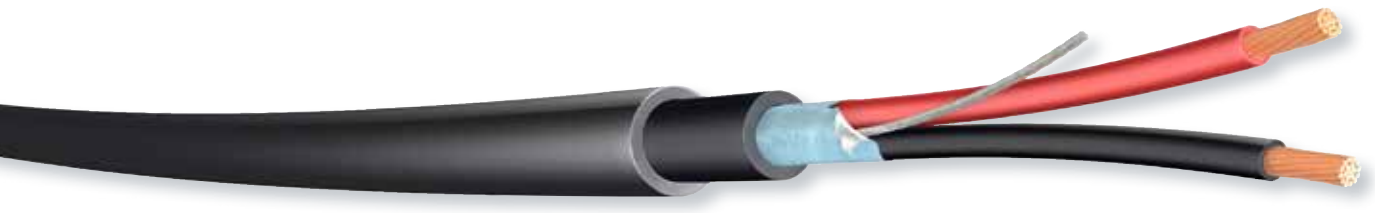

Application

These speaker cables are specially designed for protection against electrical interference in outdoor applications installed in ductwork, pipes, open tray or direct in the ground where mechanical stress is at a minimum.

Cable Design

Conductor ..... Stranded Oxygen Free Copper

Insulation ..... LSZH FireFighter®

No. of Cores ..... 2 or 4 cores cables together

Shield ..... Foil shield + 20awg tinned copper drain wire

Inner Jacket ..... LSZH FireFighter® Black RAL 9005

Outer Jacket ..... PE Polyethylene Black RAL 9005

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Duct Grade Shielded Professional Speaker Cable PHPS

Technical Data

Conductor Size (mm²)	1,50	2,50	4,0
Conductor Resistance [Ohm/km]	<13,3	< 7,98	< 4,95
Current Load [A]	20	25	34
Insulation Resistance	20 MΩ x km at 20°C		
Operating Voltage	300/500 V		
Test Voltage AC	> 2000 V		
Min. Bending radius	10 x Ø		
Temperature Range (static)	-30°C up to +80°C		
Temperature Range (Operating)	-5°C up to +80°C		

Specification

Part Number	Formation [N° of Cores x mm²]	Inner Jacket Diameter [mm [± 10%]	Overall Diameter [mm [± 10%]
PHPS215	2 x 1,50	7,20	9,2
PHPS225	2 x 2,50	8,80	10,8
PHPS240	2 x 4,0	10,0	12,0
PHPS425	4 x 2,50	9,0	11,0
PHPS440	4 x 4,0	11,2	13,2

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Installation Speaker Cables 500Series LSZH FireFighter®

Event® install

Application

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

Cable Design

Conductor ..... Stranded Oxygen Free Copper
Insulation ..... LSZH FireFighter®
No. of Cores ..... 2 cores : Black / Red
4 cores : Black / Red / Green / White
Outer Jacket ..... LSZH FireFighter®
Colour ..... Pink

Characteristics

- High Performance Speaker Cables
- For Multi-room and Home Cinema Installations
- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034

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Installation Speaker Cables 500Series LSZH FireFighter®

Specification

Part Number	Formation [N° of Cores x AWG]	Overall Diameter [mm [±10%]
5002C1644-07	2 x 16	6,0
5004C1644-07	4 x 16	7,15
5002C1444-07	2 x 14	7,20
5004C1444-07	4 x 14	9,20
5002C1244-07	2 x 12	9,80
5004C1244-07	4 x 12	12,10
5002C1044-07	2 x 10	10,10
5004C1044-07	4 x 10	12,40

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B2Ca Installation Speaker Cables 4BSeries LSZH

B2ca

Event® install

Application

Our 4BSeries Installation Speaker Cables have been manufactured according to improved Euroclass rating B2ca,s1a,d1,a1 .Intended for multiroom and home cinema installations . Providing peace of mind with cables specifically suited to safeguard life in the event of a fire.

Cable Design

Conductor ..... Stranded Oxygen Free Copper
Insulation ..... LSZH FireFighter®
No. of Cores ..... 2 cores : Black / Red
4 cores : Black / Red / Green / White
Outer Jacket ..... LSZH FireFighter®
Colour ..... Pink

Characteristics

- High Performance Speaker Cables
- For Multi-room and Home Cinema Installations
- Euroclass : B2ca,s1a,d1,a1
- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034

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B2Ca Installation Speaker Cables 4BSeries LSZH

Specification

Part Number	Formation [N° of Cores x AWG]	Overall Diameter [mm nom.]
4B02C1644-07	2 x 16	6,60
4B04C1644-07	4 x 16	7,70
4B02C1444-07	2 x 14	7,20
4B04C1444-07	4 x 14	9,20
4B02C1244-07	2 x 12	9,80
4B04C1244-07	4 x 12	12,10
4B02C1044-07	2 x 10	10,10
4B04C1044-07	4 x 10	12,40

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Screened Installation Speaker Cables 510Series
LSZH FireFighter®

Event® install

Application

Our 510 series shielded installation cables can be used in normal "in-wall" installations, the additional shield offers protection where cables are laid near power cables. These cables are LSZH as standard and offer good levels of performance in most multi-room and home cinema installations.

Cable Design

Conductor .....Stranded Oxygen Free Copper
Insulation .....LSZH FireFighter®
No. of Cores.....4 (Black / Red / Green / White)
Drain Wire .....Stranded tinned copper
Screen.....Aluminium/polyester tape (Alu. Inside)
Outer Jacket.....LSZH FireFighter®
Colour.....Pink RAL 3015

Characteristics

- For Multi-room and Home Cinema Installations
- Protection against electrical interference
- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc, to IEC 60754
- Smoke Density acc. to IEC 61034

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Screened Installation Speaker Cables 510Series

LSZH FireFighter®

Specification

Part Number	Formation [N° of Cores x AWG]	Overall Diameter [mm [±10%]
5104C1644-07	2 x 16	7,0

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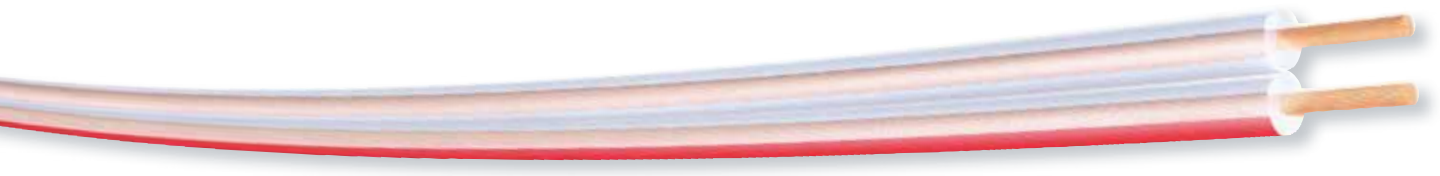
Transparent Speaker Cables Flat Twin Figure 8 LC OFC

Event® install



Application

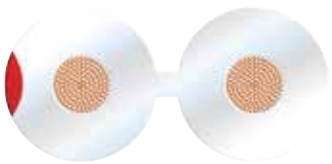
Translucent extra flexible PVC speaker cable consists of very fine oxygen-free copper strands (OFC) resulting in a very high quality product. This construction method offers optimum flexibility.

Cable Design

Conductor .....Stranded Oxygen Free Copper
Insulation .....Polyvinylchloride (PVC)
Assembly .....2 cores (Figure 8)
Identification.....Transparent with Red tracer

Characteristics

- Professional HiFi and studio applications



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Transparent Speaker Cables Flat Twin Figure 8 LC OFC

Technical Data

Insulation Resistance	>	100 MΩ x km
Max. Working Voltage		50/75V AC/DC
Test Voltage	>	2000 V
Temperature Range (static)		-30°C up to +70°C
Temperature Range (Operating)		-10°C up to +70°C

Specification

Part Number	Formation [N° of Cores x mm²]	Stranding [mm]	Overall Diameter [mm]	Current Rating A (max.)	Conductor Resistance [Ohm/km]
40306075	2 x 0,75	96 x 0,1	2,3 x 4,9	6	23
40306100	2 x 1,0	126 x 0,1	2,6 x 5,4	10	18
40306150	2 x 1,5	189 x 0,1	2,8 x 5,8	15	13,3
40306250	2 x 2,5	315 x 0,1	3,6 x 7,4	25	7,98
40306400	2 x 4,0	511 x 0,1	4,5 x 9,7	40	4,95
40306600	2 x 6,0	777 x 0,1	6,1 x 12,5	60	3,5

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Multimedia, Speciality Lighting & Blind Control Cables

Australia | Maser Communications (Aust) Pty Ltd.
Email : mca.sales@maser.com.au

146 -163

Hybrid data ,communications and control cables work with speciality lighting and window shade systems for efficient control of natural and artificial light . These systems allow custom configuration by the owner to create their own lighting settings for daily activities.

5000182434" for use with Lutron *GRAFIK EYE™ 3000, 4000, 5000, 6000 systems and Crestron touchpanels, keypads, expansion modules and tuners with the added benefit of using LSZH

FireFighter® sheath. The data cable is compliant with DMX512 digital & analogue as well as RS-422, RS-485 applications. For longer wiring distances (maximum 600m without repeater) use 500012221834 which incorporates a 12awg for power , 22awg 110 ohm signal (DMX , data , digital & analogue audio) and one 18awg sense wire which connects to terminal 5 of the circuit selectors in *GRAFIK EYE™ dimming or switching panels and allows the system to be set up for emergency lighting applications.

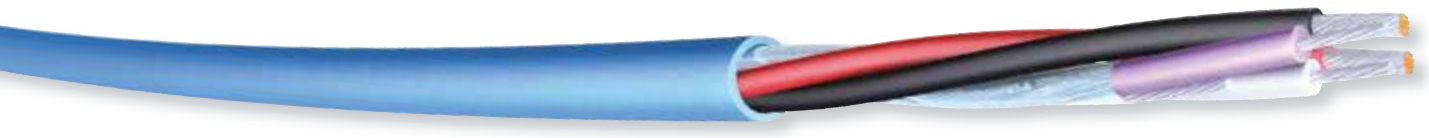
5000162224 for use with Lutron's Sivoia Shading/Blind control systems work with automated window blinds has 16awg for power , 22awg 110 ohm (data & signal)

*Sivoia™ is a trade mark of Lutron Electronics Inc.

*GRAFIK EYE™ is a trade mark of Lutron Electronics Inc.

Multimedia Hybrid Control Cable
Power + Signal LSZH FireFighter® 600 V IEC 60332-1

Event® install



Application

Hybrid multimedia control cable for use with Lutron *GRAFIK EYE™ 3000, 4000, 5000, 6000 systems and Crestron touchpanels, keypads, expansion modules and tuners with the added benefit of using LSZH FireFighter® sheath. The data cable is compliant with DMX512 digital & analogue as well as RS-422, RS-485 applications.

*GRAFIK EYE™ is a trade mark of Lutron Electronics Inc.

Cable Design

Digital Signal-Pair 1x2x0,35mm² screened (22awg)

Conductor	Stranded tinned plated copper wire (7x0,25mm) 0,35mm²
Insulation	Foam Polyethylene (PE) Ø 2,0 mm
Pair identification	White / Violet
Drain Wire	Stranded tinned plated copper wire (7x0,20mm)
Screen	100% Polyester + Aluminium/polyester (Alu. inside)

Power cores 2x0,93mm² (18/19awg)

Conductor	Stranded tinned plated copper wire (19x0,25mm) 0,93mm²
Insulation	Cross-Linked Polyethylene (XLPE) Ø 2,0 mm
Core identification	Black / Red

Assembly ..... 1 signal pair (0,35mm²) + 2 power cores (0,93mm²)

Outer Jacket ..... LSZH FireFighter® BLUE RAL 5015

Diameter ..... Ø 7,50 ± 1,0 mm

Fire Behaviour

- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc. to IEC 60754
- Smoke Emission acc. to IEC 61034

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Multimedia Hybrid Control Cable

Power + Signal LSZH FireFighter® 600 V IEC 60332-1

Technical Data

Signal-Pair	Capacitance core/core	46	pF/m	(nom)
	Capacitance core/screen	124	pF/m	
	Attenuation (1 MHz)	2,0	dB/100m	(nom)
	Velocity ratio	0,78		(nom)
	Resiatance (core)	56	Ohm/km	(max)
	Resiatance (screen)	65	Ohm/km	(max)
	Insulation resistance	100	Mohm x km	(min)
Power Cores	Resistance (cores)	19	Ohm/km	(max)
	Insulation resistance	200	Mohm x km	(min)
	Operating voltage	600	V	
	Test voltage	2000	V	

Thermal & Mechanical Characteristics

Operating temperature		-25°C up to +70°C		
Bending radius	+20°C	50	mm	(min)
	-25°C	100	mm	(min)
Weight		5.2	kg/100m	

Specification

EventSeries® Part #	Lutron	Crestron	Type
5000182434	GRX-CBL-346S	CRESNET-NP	EventSeries® Multimedia Hybrid Control Cable 1x2x18/19awg Power + 1x2x22/7awg 110ohm 600V LSZH FireFighter® IEC60332-1 Blue

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Multimedia Hybrid Control Cable
Power-Data-Sense LSZH FireFighter® 600 V IEC 60332-1

Event® install

Application

Hybrid multimedia control cable for use with Lutron *GRAFIK EYE™ for longer wiring distances (maximum 600m without repeater), incorporates a 12awg for power conductors , 22awg 110 ohm signal (DMX , data, digital & analogue audio) and one 18awg sense wire which connects to terminal 5 of the circuit selectors in *GRAFIK EYE™ dimming or switching panels and allows the system to be set up for emergency lighting applications.

The drain wire must be isolated from earth and the *GRAFIK EYE™ Control. In daisy-chained applications, the drain wire must be connected to each other and then isolated from earth and the *GRAFIK EYE™ Control.

Cable Design

Digital Signal-Pair 1x2x0,35mm² screened (22awg)

Conductor	Stranded tinned plated copper wire (7x0,25mm)
Insulation	Foam-skin Polyethylene (PE) Ø 2,0 mm
Pair identification	White / Violet
Screen	100% Aluminium foil
Drain Wire	Stranded tinned plated copper wire (7x0,20mm)

Power cores 2x3,30mm² (12awg)

Conductor	Stranded tinned plated copper wire (19x0,47mm)
Insulation	Polyethylene (PE) Ø 3,75 mm
Core identification	Black / Red

Sensor core 1x0,93mm² (18/19awg)

Conductor	Stranded tinned plated copper wire (19x0,25mm)
Insulation	Polyethylene (PE) Ø 2,0 mm
Core identification	Orange

Assembly 1 signal pair 22awg (0,35mm²) + 2 power cores 12awg (3,30mm²) + 1 sense 18/19awg (0,93mm²)

Outer Jacket LSZH FireFighter® Light Blue

Diameter Ø 10,50 mm

Fire Behaviour

- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc. to IEC 60754
- Smoke Emission acc. to IEC 61034

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Multimedia Hybrid Control Cable
Power-Data-Sense LSZH FireFighter® 600 V IEC 60332-1

Technical Data

Signal-Pair	Capacitance core/core	46	pF/m	(nom)
	Capacitance core/screen	124	pF/m	
	Attenuation (1 MHz)	2,0	dB/100m	(nom)
	Velocity ratio	0,78		(nom)
	Resiatance (core)	56	Ohm/km	(max)
	Resiatance (screen)	65	Ohm/km	(max)
	Insulation resistance	100	Mohm x km	(min)
Control Core	Resistance	19,5	Ohm/km	(max)
Power Cores	Resistance (cores)	5,5	Ohm/km	(max)
	Insulation resistance	200	Mohm x km	(min)
	Operating voltage	600	V	
	Test voltage	2000	V	

Thermal & Mechanical Characteristics

Operating temperature		-25°C up to +70°C		
Bending radius	+20°C	70	mm	(min)
	-25°C	100	mm	(min)
Weight		14,3	kg/100m	

Specification

EventSeries® Part #	Lutron	Type
500012221834	GRX-CBL-46L	Multimedia Control Cable Power-Data- Sense 1x2x12/19awg+1x2x22/7awg 110ohm + 18/19awg 600V LSZH FireFighter® IEC60332-1 Blue

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Hybrid Blind Control Cable
Power + Signal LSZH FireFighter® 600 V IEC 60332-1

Event® install

Application

Hybrid control cable commonly used for communication and control circuits as an alternative to QSH-CBL-M. Designed for medium runs when installing the Lutron Sivoia Shading System.

**Sivoia is a trademark of Lutron Electronics Inc.*

Cable Design

Digital Signal-Pair 1x2x0,35mm² screened (22/19awg)

Conductor	Stranded bare copper wire (0,33mm²)
Insulation	Polyethylene (PE) - Ø 1,70 ± 0,10 mm
Pair identification	White / Violet
Drain Wire	Stranded tin plated copper wire (0,22mm²)
Screen	100% Polyester + Aluminium/polyester (Alu. inside)

Power cores 2x1,32mm² (16/26awg)

Conductor	Stranded bare copper wire 26/0,25mm
Insulation	Polyethylene (PE) - Ø 2,50 ± 0,15 mm
Core identification	Black / Red

Assembly ..... 1 signal pair + 2 power cores

Outer Jacket ..... LSZH FireFighter® WHITE

Diameter	Ø 7,60 mm nom

Fire Behaviour

- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc. to IEC 60754
- Smoke Emission acc. to IEC 61034

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Hybrid Blind Control Cable

Power + Signal LSZH FireFighter® 600 V IEC 60332-1

Electrical Characteristics

Signal-Pair	Capacitance core/core	70	pF/m
	Conductor Resiatance at 20°C	< 57,8	Ohm/km
Power Cores	Conductor Resiatance at 20°C	< 14,1	Ohm/km
Overall	Voltage Rating	600	V
	Test Voltage	2,5	kV for 2s
	Insulation resistance	> 200	MΩ.M

Thermal & Mechanical Characteristics

Temperature rating	-20°C up to +70°C	
Min. Bending radius	10	x Ø
Weight	70	kg/km

Specification

EventSeries® Part #	Lutron	Type
5000162224	QSH-CBL-M	EventSeries Hybrid Blind Control Cable 600V LSZH FireFighter IEC60332-1 White

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Media Control Cable
1x2x22awg + 2x18awg LSZH FireFighter® 600 V

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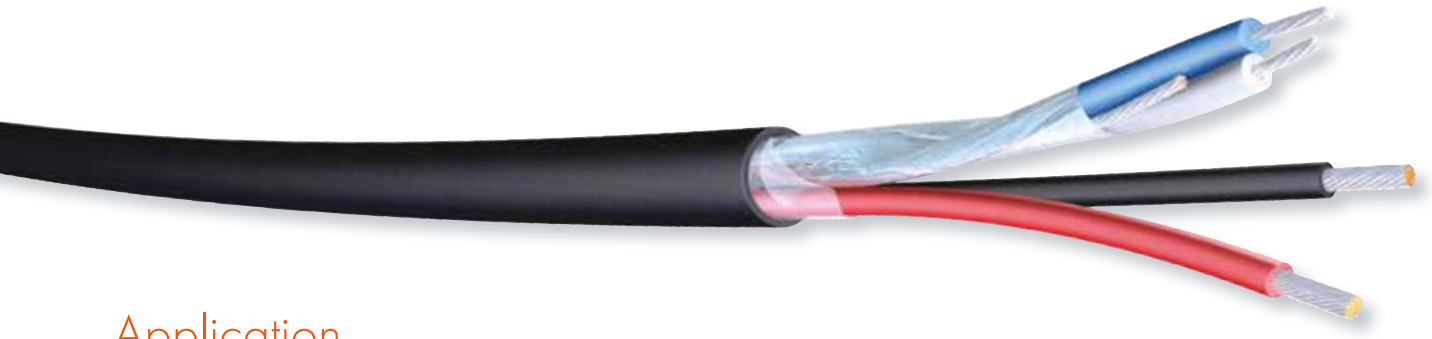

Application

Hybrid multimedia control cable for use with touchpanels, keypads, expansion modules and tuners with the added benefit of using LSZH FireFighter® sheath. The data cable is compliant with DMX512 digital & analogue as well as RS-422, RS-485.
Suitable for Crestron systems.

Cable Design

Digital Signal-Pair 1x2x22awg

Conductor	Stranded tinned copper wire (7x0,25mm)
Insulation	LDFPE Ø 2,25 ± 0,10 mm
Pair identification	White / Blue
Drain Wire	Stranded tinned copper wire (7x0,20mm)
Screen	Aluminium/polyester (Alu. inside)

Power cores 2x18awg

Conductor	Stranded tinned copper wire (16x0,25mm)
Insulation	HFFR compound Ø 2,0 ± 0,05 mm
Core identification	Black / Red

Assembly	1 screened signal pair + 2 power cores stranded
Tape	PES tape wrapped

Outer Jacket	HFFR compound
Colour	Black
Diameter	Ø 7,50 ± 1,0 mm

Fire Behaviour

- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc. to IEC 60754
- Smoke Emission acc. to IEC 61034

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Media Control Cable
1x2x22awg + 2x18awg LSZH FireFighter® 600 V

Technical Data

Signal-Pair	Capacitance core/core	46	pF/m	(nom)
	Capacitance core/screen	125	pF/m	(nom)
	Conductor Resistance	54	Ohm/km	(nom)
	Inductance	0,76	mH/km	(nom)
	Impedance	100	Ohm±15%	
	Current per Conductor @ 30°C	6	Amps	
Power Cores	Conductor Resistance	23	Ohm/km	(nom)
	Capacitance core/core	95	pF/m	(nom)
	Inductance	0,55	mH/km	(nom)
	Rated Voltage	300	V	
	Test Voltage	1,0	kV AC 1min.	
	Current per Conductor @ 30°C	14	Amps	

Thermal & Mechanical Characteristics

Operating temperature	Flexing	-2°C up to +75°C
	Fixed	-20°C up to +75°C
Bending radius		10 x Ø

Specification

Part Number	Type
5000182434-01	EventSeries® Multimedia Hybrid Control Cable 2x18 Power + 1x2x22awg LSZH FireFighter® IEC60332-1 Black

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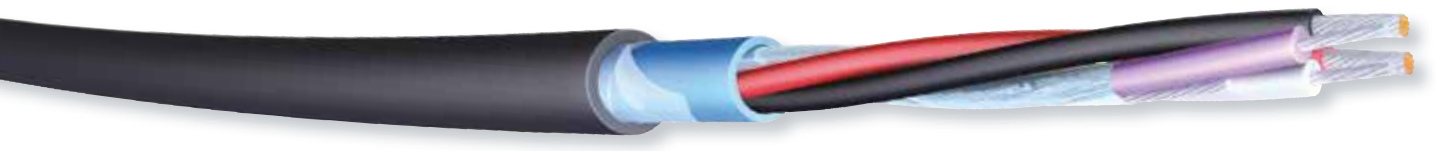
Multimedia Hybrid Control Cable
Power + Signal Duct Grade

Event® install



Application

Duct Grade hybrid multimedia control cable for use with Lutron *GRAFIK EYE™ 3000, 4000, 5000, 6000 systems and Crestron touchpanels, keypads, expansion modules and tuners. The data cable is compliant with DMX512 digital & analogue as well as RS-422, RS-485 applications.

**GRAFIK EYE™ is a trade mark of Lutron Electronics Inc.*

Cable Design

Digital Signal-Pair 1x2x0,35mm² screened (22awg)

Conductor	Stranded tinned plated copper wire (7x0,25mm) 0,35mm²
Insulation	Foam Polyethylene (PE) Ø 2,0 mm
Pair identification	White / Violet
Drain Wire	Stranded tinned plated copper wire (7x0,20mm)
Screen	100% Polyester + Aluminium/polyester (Alu. inside)

Power cores 2x0,93mm² (18/19awg)

Conductor	Stranded tinned plated copper wire (19x0,25mm) 0,93mm²
Insulation	Cross-Linked Polyethylene (XLPE) Ø 2,0 mm
Core identification	Black / Red

Assembly ..... 1 signal pair (0,35mm²) + 2 power cores (0,93mm²)

Inner Jacket	LSZH FireFighter® BLUE RAL 5015
Diameter	Ø 7,20 ± 0,5 mm
Tape	Melinex tape wrapped
Outer Jacket	MDPE Black
Thickness	1,10 mm
Overall Diameter	Ø 9,40 ± 0,5 mm

Additional Features

- Ideal for clipping to external walls and laying in ducts.
- Water resistant.
- Good sunlight resistance.
- For external environments where mechanical protection is not required.

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Multimedia Hybrid Control Cable

Power + Signal Duct Grade

Technical Data

Signal-Pair	Capacitance core/core	46	pF/m	(nom)
	Capacitance core/screen	124	pF/m	
	Attenuation (1 MHz)	2,0	dB/100m	(nom)
	Velocity ratio	0,78		(nom)
	Resiatance (core)	56	Ohm/km	(max)
	Resiatance (screen)	65	Ohm/km	(max)
	Insulation resistance	100	Mohm x km	(min)
Power Cores	Resistance (cores)	19	Ohm/km	(max)
	Insulation resistance	200	Mohm x km	(min)
	Operating voltage	600	V	
	Test voltage	2000	V	

Specification

EventSeries® Part #	Type
25000182434	Duct Grade EventSeries® Multimedia Control Cable 1x2x18/19awg Power + 1x2x22/7awg 110ohm 600V

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Multimedia Hybrid Control Cable
Power-Data-Sense Duct Grade

Event® install

Application

Hybrid multimedia control cable for use with Lutron *GRAFIK EYE™ for longer wiring distances (maximum 600m without repeater), incorporates a 12awg for power conductors , 22awg 110 ohm signal (DMX , data, digital & analogue audio) and one 18awg sense wire which connects to terminal 5 of the circuit selectors in *GRAFIK EYE™ dimming or switching panels and allows the system to be set up for emergency lighting applications.

The drain wire must be isolated from earth and the *GRAFIK EYE™ Control. In daisy-chained applications, the drain wire must be connected to each other and then isolated from earth and the *GRAFIK EYE™ Control.

Cable Design

Digital Signal-Pair 1x2x0,35mm² screened (22awg)

Conductor	Stranded tinned plated copper wire (7x0,25mm)
Insulation	Foam-skin Polyethylene (PE) Ø 2,0 mm
Pair identification	White / Violet
Screen	100% Aluminium foil
Drain Wire	Stranded tinned plated copper wire (7x0,20mm)

Power cores 2x3,30mm² (12awg)

Conductor	Stranded tinned plated copper wire (19x0,47mm)
Insulation	Polyethylene (PE) Ø 3,75 mm
Core identification	Black / Red

Sensor core 1x0,93mm² (18/19awg)

Conductor	Stranded tinned plated copper wire (19x0,25mm)
Insulation	Polyethylene (PE) Ø 2,0 mm
Core identification	Orange

Assembly 1 signal pair 22awg (0,35mm²) + 2 power cores 12awg (3,30mm²) + 1 sense 18/19awg (0,93mm²)

Inner Jacket	LSZH FireFighter® Light Blue
Diameter	Ø 10,50 mm
Tape	Melinex tape wrapped
Outer Jacket	MDPE Black
Thickness	1,10 mm
Overall Diameter	Ø 12,70 mm

Additional Features

- Ideal for clipping to external walls and laying in ducts.
- Water resistant.
- Good sunlight resistance.
- For external environments where mechanical protection is not required.

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Multimedia Hybrid Control Cable
Power-Data-Sense Duct Grade

Technical Data

Signal-Pair	Capacitance core/core	46	pF/m	(nom)
	Capacitance core/screen	124	pF/m	
	Attenuation (1 MHz)	2,0	dB/100m	(nom)
	Velocity ratio	0,78		(nom)
	Resiatance (core)	56	Ohm/km	(max)
	Resiatance (screen)	65	Ohm/km	(max)
	Insulation resistance	100	Mohm x km	(min)
Control Core	Resistance	19,5	Ohm/km	(max)
Power Cores	Resistance (cores)	5,5	Ohm/km	(max)
	Insulation resistance	200	Mohm x km	(min)
	Operating voltage	600	V	
	Test voltage	2000	V	

Specification

EventSeries® Part #	Type
2500012221834	Duct Grade Multimedia Control Cable Power-Data- Sense1x2x12/19awg+1x2x22/7awg 110ohm + 18/19awg Blue

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Multimedia Hybrid Control Cable
Power + Signal DataGuard® Armoured (SWA)

Event® install

Application

Hybrid multimedia control cable for use with Lutron *GRAFIK EYE™ 3000, 4000, 5000, 6000 systems and Crestron touchpanels, keypads, expansion modules and tuners with the added benefit of using LSZH FireFighter® sheath and DataGuard armouring for outdoor use. The data cable is compliant with DMX512 digital & analogue as well as RS-422, RS-485 applications.

*GRAFIK EYE™ is a trade mark of Lutron Electronics Inc.

Cable Design

Digital Signal-Pair 1x2x0,35mm² screened (22awg)

Conductor	Stranded tinned plated copper wire (7x0,25mm) 0,35mm²
Insulation	Foam Polyethylene (PE) Ø 2,0 mm
Pair identification	White / Violet
Drain Wire	Stranded tinned plated copper wire (7x0,20mm)
Screen	100% Polyester + Aluminium/polyester (Alu. inside)

Power cores 2x0,93mm² (18/19awg)

Conductor	Stranded tinned plated copper wire (19x0,25mm) 0,93mm²
Insulation	Cross-Linked Polyethylene (XLPE) Ø 2,0 mm
Core identification	Black / Red

Assembly	1 signal pair (0,35mm²) + 2 power cores (0,93mm²)
Inner Jacket	LSZH FireFighter® BLUE RAL 5015
Diameter	Ø 7,20 ± 0,5 mm
Armour	DataGuard® Steel Wire Armour (SWA)
Outer Jacket	LSZH FireFighter® BLACK
Overall Diameter	Ø 11,0 mm ± 0,50 mm

Additional Features

- Indoor/Outdoor applications
- Mechanical protection
- Rodent Protection
- Direct Burial
- UV-Resistant

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Multimedia Hybrid Control Cable

Power + Signal DataGuard® Armoured (SWA)

Technical Data

Signal-Pair	Capacitance core/core	46	pF/m	(nom)
	Capacitance core/screen	124	pF/m	
	Attenuation (1 MHz)	2,0	dB/100m	(nom)
	Velocity ratio	0,78		(nom)
	Resiatance (core)	56	Ohm/km	(max)
	Resiatance (screen)	65	Ohm/km	(max)
	Insulation resistance	100	Mohm x km	(min)
Power Cores	Resistance (cores)	19	Ohm/km	(max)
	Insulation resistance	200	Mohm x km	(min)
	Operating voltage	600	V	
	Test voltage	2000	V	

Specification

EventSeries® Part #	Type
145000182434-01	DataGuard® Armoured (SWA) EventSeries® Multimedia Control Cable 1x2x18/19awg Power + 1x2x22/7awg 110ohm 600V

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Multimedia Hybrid Control Cable
Power-Data-Sense DataGuard® Armourd (SWA)

Event® install

Application

Hybrid multimedia control cable for use with Lutron *GRAFIK EYE™ for longer wiring distances (maximum 600m without repeater), incorporates a 12awg for power conductors , 22awg 110 ohm signal (DMX , data, digital & analogue audio) and one 18awg sense wire which connects to terminal 5 of the circuit selectors in *GRAFIK EYE™ dimming or switching panels and allows the system to be set up for emergency lighting applications.

The drain wire must be isolated from earth and the *GRAFIK EYE™ Control. In daisy-chained applications, the drain wire must be connected to each other and then isolated from earth and the *GRAFIK EYE™ Control.

Cable Design

Digital Signal-Pair 1x2x0,35mm² screened (22awg)
- Conductor ..... Stranded tinned plated copper wire (7x0,25mm)
- Insulation ..... Foam-skin Polyethylene (PE) Ø 2,0 mm
- Pair identification ..... White / Violet
- Screen ..... 100% Aluminium foil
- Drain Wire ..... Stranded tinned plated copper wire (7x0,20mm)

Power cores 2x3,30mm² (12awg)
- Conductor ..... Stranded tinned plated copper wire (19x0,47mm)
- Insulation ..... Polyethylene (PE) Ø 3,75 mm
- Core identification ..... Black / Red

Sensor core 1x0,93mm² (18/19awg)
- Conductor ..... Stranded tinned plated copper wire (19x0,25mm)
- Insulation ..... Polyethylene (PE) Ø 2,0 mm
- Core identification ..... Orange

Assembly ..... 1 signal pair 22awg (0,35mm²) + 2 power cores 12awg (3,30mm²) + 1 sense 18/19awg (0,93mm²)

Inner Jacket ..... LSZH FireFighter® Light Blue
- Diameter ..... Ø 10,50 mm

Armour ..... DataGuard® Steel Wire Armour (SWA)

Outer Jacket ..... LSZH FireFighter® Black
- Overall Diameter ..... Ø 14,50 mm

Additional Features

- Indoor/Outdoor applications
- Mechanical protection
- Rodent Protection
- Direct Burial
- UV-Resistant

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Multimedia Hybrid Control Cable
Power-Data-Sense DataGuard® Armourd (SWA)

Technical Data

Signal-Pair	Capacitance core/core	46	pF/m	(nom)
	Capacitance core/screen	124	pF/m	
	Attenuation (1 MHz)	2,0	dB/100m	(nom)
	Velocity ratio	0,78		(nom)
	Resiatance (core)	56	Ohm/km	(max)
	Resiatance (screen)	65	Ohm/km	(max)
	Insulation resistance	100	Mohm x km	(min)
Control Core	Resistance	19,5	Ohm/km	(max)
Power Cores	Resistance (cores)	5,5	Ohm/km	(max)
	Insulation resistance	200	Mohm x km	(min)
	Operating voltage	600	V	
	Test voltage	2000	V	

Specification

EventSeries® Part #	Type
14500012221834-01	DataGuard Armoured (SWA) Multimedia Control Cable Power-Data- Sens 1x2x12/19awg+1x2x22/7awg 110ohm + 18/19awg Black

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