

All technical specifications are subject to change without prior notice. Consult OPTRAL for the latest edition.

Descripción cable

- 01. Tight Buffer Fibre (0.9 mm)
- 02. Aramid
- 03. Individual Jacket (Ø 2.5 mm)
- 04. Outer Jacket

Fire resistance

- Flame retardant
- Halogen free
- Low smoke emission

Advantages

- Compact / Resilient / Tough / Excellent mechanical resistance / Easy to strip (gel free) /
- Totally dielectric / Direct connectorization.

Applications

- Indoor
- Direct connection to terminal equipments
- Based on DIN VDE 0888 part 6

Options

- Jackets: PVC / LSZH / PE / PU / PA
- Special colour code



TOTALLY DIELECTRIC



MOISTURE PROTECTED



FLAME RETARDANT



LOW SMOKE EMISSION



HALOGEN FREE

SPECIFICATIONS

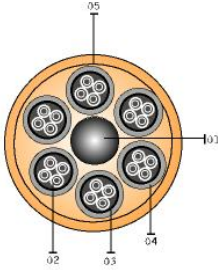
	2	4	6	8	12	16
Fibres	2	4	6	8	12	16
Subcables strength members	Aramid Yarns					
Subcables Ø (mm)	2.5					
Subcables jacket	Thermoplastic LSZH ¹					
Identification	Numbers					
Outer jacket	Thermoplastic LSZH ¹					
Colour	Orange (MM62) / Blue (MM50) / Yellow (SM)					
Weight (Kg/Km)	54	54	77	96	130	173
Outer Ø (mm)	7.9 ± 0.3	7.9 ± 0.3	9.6 ± 0.3	11.1 ± 0.5	12.1 ± 0.5	13.9 ± 0.5
Tensile Load Perm / Inst (N)	600 / 1000	800 / 1350	1200 / 2050	1600 / 2700	2400 / 3500	3200 / 3500
Crush (N)	2000					
Temperature Range	-20 °C to +70 °C					
Min. Bending Radius	20 x Outer Ø					
Max. Length	3200 m					

Standards

Environmental and mechanical tests according to: EN 187000 and CEI 60794.

Fire test according to: UNE-EN 50266 (IEC 60332-3) / UNE-EN 50267 (IEC 60754-1) / UNE-EN 50268 (IEC 61034-1/2).

¹ LSZH – Halogen free, low smoke and flame retardant thermoplastic compound.



Cable description

- 01. Central Element (GRP)
- 02. Tight Buffer Fibre (0.9 mm)
- 03. Aramid
- 04. Individual Jacket (Ø 2.5 mm)
- 05. Outer Jacket

Fire resistance

- Flame retardant
- Halogen free
- Low smoke emission

Applications

- Indoor
- Direct connection to terminal equipments
- Based on DIN VDE 0888 part 6

Options

- Jackets: PVC / PE / PU / PA
- Special colour code
- Buffer Easy-Strip

Advantages

Compact / Resilient / Tough / Excellent mechanical resistance / Easy to strip (gel free) / Totally dielectric / Direct connectorization / High fibre count.



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	SPECIFICATIONS			
Fibres	24	32	36	48
Subcables strength members	Aramid Yarns			
Ø Subcables (mm)	2.5			
Subcables jacket	Thermoplastic			
Identification	Numbers			
Outer jacket	Thermoplastic LSZH ¹			
Colour	Orange (MM62) / Blue (MM50) / Yellow (SM)			
Weight (Kg/Km)	308	470	462	472
Outer Ø (mm)	20.8 ± 0.5	24.9 ± 0.5	26.7 ± 0.5	26.7 ± 0.5
Tensile Load Perm / Inst (N)	3000 / 4000			
Crush (N)	1500			
Temperature range	-20 °C to +70 °C			
Min. Bending Radius	20 x Outer Ø			
Maximum Length	600 m			

Standards

Environmental and mechanical tests according to EN 187000 and CEI 60794.

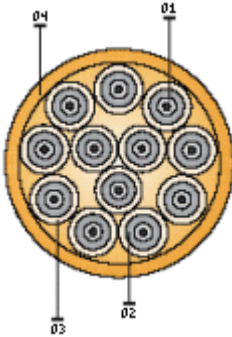
Fire tests according to: UNE-EN 50266 (IEC 60332-3) / UNE-EN 50267 (IEC 60754-1) / UNE-EN 50268 (IEC 61034-1/2).

¹ LSZH – Halogen free, low smoke and flame retardant thermoplastic compound.

OPTRAL

Mini - CDIR (2.1 mm)

Breakout Cable (Up to 16 FO)



Cable Description

- 01. Tight Buffer Fibre (0.9 mm)
- 02. Aramid
- 03. Individual Jacket (\varnothing 2.1 mm)
- 04. Outer Jacket

Fire resistance

Flame retardant
Halogen free
Low smoke emission

Applications

Indoor
Direct connection to terminal equipments
Based on DIN VDE 0888 part 6

Options

Jackets: PVC / PE / PU / PA
Special colour code

Advantages

Compact / Resilient / Tough / Excellent mechanical resistance / Easy to strip (gel free) / Totally dielectric / Reduced diameter / Direct connectorization.



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FLAME RETARDANT



LOW SMOKE EMISSION



HALOGEN FREE



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SPECIFICATIONS

	2	4	6	8	12	16
Fibres	2	4	6	8	12	16
Subcables strength members	Aramid Yarns					
Central Filler	Yes					
Subcables jacket	Thermoplastic LSZH ¹					
Identification	Numbers					
Outer jacket	Thermoplastic LSZH ¹					
Colour	Orange (MM62) / Blue (MM50) / Yellow (SM)					
Weight (Kg/Km)	35	44	58	77	100	133
Outer \varnothing (mm)	7.0 ± 0.3	7.0 ± 0.3	8.2 ± 0.3	9.7 ± 0.3	10.3 ± 0.5	11.9 ± 0.5
Tensile Load Perm / Inst (N)	400 / 700	600 / 1000	900 / 1550	1200 / 2050	1700 / 2900	2200 / 3500
Crush (N)	1500					
Temperature Range	-20 °C to +70 °C					
Min. Bending Radius	20 x Outer \varnothing					
Maximum Length	4200 m					

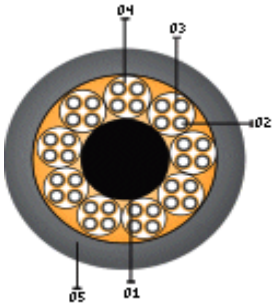
Standards

Environmental and mechanical tests according to EN 187000 and CEI 60794.

Fire test according to: UNE-EN 50266 (IEC 60332-3) / UNE-EN 50267 (IEC 60754-1) / UNE-EN 50268 (IEC 61034-1/2).

¹ LSZH – Halogen free, low smoke and flame retardant thermoplastic compound.





Cable Description

- 01. Central Element (GRP)
- 02. Tight Buffer Fibre (0.9 mm)
- 03. Aramid
- 04. Individual Jacket (Ø 2.1 mm)
- 05. Outer Jacket

Fire resistance

- Flame retardant
- Halogen free
- Low smoke emission

Applications

- Indoor
- Direct connection to terminal equipments
- Based on DIN VDE 0888 part 6

Options

- Jackets: PVC / PE / PU / PA
- Special colour code
- Buffer Easy-Strip

Advantages

Compact / Resilient / Tough / Excellent mechanical resistance / Easy to strip (gel free) / Totally dielectric / Direct connectorization / High fibre count.



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LOW SMOKE EMISSION



HALOGEN FREE

	SPECIFICATIONS			
Fibres	24	32	36	48
Subcables strength members	Aramid Yarns			
Ø Subcables (mm)	2.1			
Subcables jacket	Thermoplastic			
Identification	Numbers			
Outer jacket	Thermoplastic LSZH ¹			
Colour	Orange (MM62) / Blue (MM50) / Yellow (SM)			
Weight (Kg/Km)	251	351	420	389
Outer Ø (mm)	16.5 ± 0.5	19.5 ± 0.5	21.1 ± 0.5	22.9 ± 0.5
Tensile Load Perm / Inst (N)	3000 / 4000			
Crush (N)	1500			
Temperature Range	-20 °C to +70 °C			
Min. Bending Radius	20 x Outer Ø			
Maximum Length	850 m			

Standards

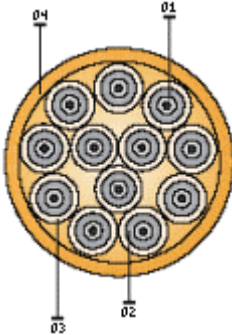
Environmental and mechanical tests according to EN 187000 and CEI 60794.
 Fire test according to: UNE-EN 50266 (IEC 60332-3) / UNE-EN 50267 (IEC 60754-1) / UNE-EN 50268 (IEC 61034-1/2).

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Mini - CDIR (1.6 mm)

Breakout Cable (Up to 16 FO)



Cable description

- 01. Tight Buffer Fibre (0.9 mm)
- 02. Aramid
- 03. Individual Jacket (Ø 1.6 mm)
- 04. Outer Jacket

Fire resistance

- Flame retardant
- Halogen free
- Low smoke emission

Applications

- Indoor
- Direct connection to terminal equipments
- Based on DIN VDE 0888 part 6

Options

- Jackets: PVC / PE / PU / PA
- Special colour code

Advantages

- Compact / Resilient / Tough / Excellent mechanical resistance / Easy to strip (gel free) /
- Totally dielectric / Reduced diameter / Direct connectorization.



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	SPECIFICATIONS					
Fibres	2	4	6	8	12	16
Subcables strength members	Aramid Yarns					
Subcables jacket	Thermoplastic LSZH ¹					
Identification	Numbers					
Outer jacket	Thermoplastic LSZH ¹					
Colour	Orange (MM62) / Blue (MM50) / Yellow (SM)					
Weight (Kg/Km)	25	30	43	52	65	92
Outer Ø (mm)	5.8 ± 0.3	5.8 ± 0.3	6.9 ± 0.3	7.9 ± 0.3	8.4 ± 0.3	9.8 ± 0.3
Tensile Load Perm / Inst (N)	150 / 250	200 / 350	300 / 500	400 / 700	600 / 1000	800 / 1350
Crush (N)	1200					
Temperature Range	-20 °C to +70 °C					
Min. Bending Radius	20 x Outer Ø					
Maximum Length	3200 m					

Standards

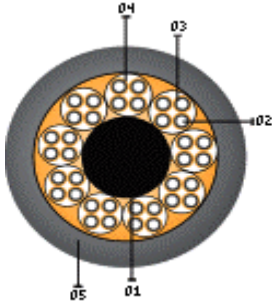
Environmental and mechanical tests according to: EN 187000 and CEI 60794.

Fire test according to: UNE-EN 50266 (IEC 60332-3) / UNE-EN 50267 (IEC 60754-1) / UNE-EN 50268 (IEC 61034-1/2).

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Mini CDIR (1.6 mm) Breakout Cable (24 - 48 FO)



Cable description

- 01. Central Element (GRP)
- 02. Tight Buffer Fibre (0.9 mm)
- 03. Aramid
- 04. Individual Jacket (Ø 1.6 mm)
- 05. Outer Jacket

Fire resistance

- Flame retardant
- Halogen free
- Low smoke emission

Applications

- Indoor
- Direct connection to terminal equipments
- Based on DIN VDE 0888 part 6

Options

- Jackets: PVC / PE / PU / PA
- Special colour code
- Buffer Easy-Strip

Advantages

- Compact / Resilient / Tough / Excellent mechanical resistance / Easy to strip (gel free) / Totally dielectric / Direct connectorization / High fibre count.



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FLAME RETARDANT



LOW SMOKE EMISSION



HALOGEN FREE



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	SPECIFICATIONS			
Fibres	24	32	36	48
Subcables strength members	Aramid Yarns			
Ø Subcables (mm)	1.6			
Subcables jacket	Thermoplastic			
Identification	Numbers			
Outer jacket	Thermoplastic LSZH ¹			
Colour	Orange (MM62) / Blue (MM50) / Yellow (SM)			
Weight (Kg/Km)	157	235	272	238
Outer Ø (mm)	14.3 ± 0.5	17.0 ± 0.5	18.2 ± 0.5	18.2 ± 0.5
Tensile Load Perm / Inst (N)	1200 / 2150	1600 / 2900	1800 / 3250	2400 / 4000
Crush (N)	1500			
Temperature Range	-20 °C to +70 °C			
Min. Bending Radius	20 x Outer Ø			
Maximum Length	1300 m			

Standards

Environmental and mechanical tests according to EN 187000 and CEI 60794.

Fire test according to: UNE-EN 50266 (IEC 60332-3) / UNE-EN 50267 (IEC 60754-1) / UNE-EN 50268 (IEC 61034-1/2).

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