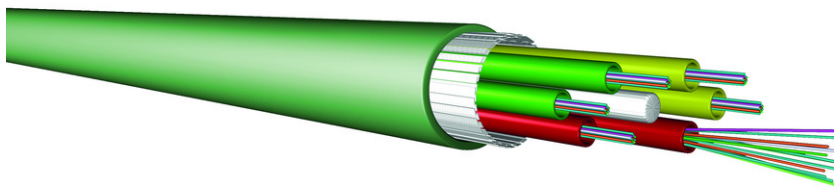


FO Universal Cable 48E9/125µm OS2 6kN with non-metallic rodent protection



tde - FO Universal cables

This cable can be used for LAN and WAN backbones, telecom access lines, fiber to business and fiber to the building drop connections as well as fiber to the home drop and access connections. With its FireBur[®] LSHF sheathing this cable is ideal for mixed indoor and outdoor installation. This cable features a high tensile strength and a degree of rodent protection, effective in many cases. It is equally suited for installation in ducts and on trays. The cable is suited for installation in tubes by blowing and flooding. The cable may be used for direct burial with proper sand back filling.

Features

- Robust, non metallic fibre optic outdoor and indoor cable with stranded loose tubes.
- High crush resistance for high transmission reliability.
- Easy handling due to cable construction with dry interstices.
- Non metallic rodent protection.
- The two coloured ripcords are easy to identify and enable the safe opening of the cable sheath.
- Flame retardant halogen-free FR/LSOH sheath.



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Application

- LAN backbone, access and riser zone.
- Connection cable between the building distributors and/or floor distributors.
- Suitable for laying in cable trays, ducts and vertical shafts.
- Can also be spliced in all FO distributors and joints.

Technical Data

Mechanical characteristics

Temperature range	Storage -25 to +70°C, IEC 60794-1-22 F1
	Pulling in -10 to +50°C
	Operation -25 to +60°C
Tensile performance	IEC 60794-1-21 E1
Crush resistance	IEC 60794-1-21 E3
Impact	IEC 60794-1-21 E4
Repeated bending	IEC 60794-1-21 E6
Torsion	IEC 60794-1-21 E7
Bend	IEC 60794-1-21 E11
Water penetration	IEC 60794-1-22 F5

General characteristics

Sheath colour	green, similar to RAL 6016
Zero halogen, no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2
Flame spread	IEC 60332-3-24, EN 50266-2-4, VDE 0482-266-2-4
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2
Reaction to fire (Euroclasses)	EN 13501-6: E _{ca}

Cabletype	Universal U-DQ(ZN)BH for indoor and outdoor use
	non metallic, dry interstices, rodent protection, flame retardant, in accordance with IEC 60332.1 and IEC 60332.3 C
Fibertype	Corning E9/125 G.652.D
No. of fibers	48
Loose tube	4
Sheath ø	11.4 mm
Weight	148 kg/km
Bending radius	175 mm
Tensile load	6000 N
Crush resistance	3000 N continuous
	5000 N short term
Fire load	616 kWh/km
	2218 MJ/km

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Length tolerances (prefabricated with plugs)

Tolerances for lengths up to 40m	± 100 cm
Tolerances for lengths up to 100m	± 100 cm
Tolerances for lengths from 100m	± 2%

FO Fiber

Optical properties

Maximum attenuation (cabled)	1310 nm: 0.34 / 1383 nm: 0.34* dB/km (*post hydrogen aging performance)
Maximum Chromatic Dispersion	3.5 ps/(nm x km)
Zero Dispersion Wavelength λ_0	1304 $\leq \lambda_0 \leq$ 1324 nm
Maximum Zero Dispersion Slope S_0	0.092 ps/(nm ² x km)
Mode-Field Diameter	9.2 +/- 0,4 µm
Maximum Cable Cut-off Wavelength λ_{CC}	1260 nm
PDM Link Design Value	\leq 0.04 ps/ $\sqrt{\text{km}}$
Max. individual fibre PMD	\leq 0.1 ps/ $\sqrt{\text{km}}$
Max. individual cable PMD	\leq 0.2 ps/ $\sqrt{\text{km}}$
Refractive Index	1.4676

Mechanical properties

Cladding diameter	125.0 +/- 1.0 µm
Maximum Core/Cladding Concentricity Error	0.5 µm
Maximum Cladding Non-Circularity	0.7 %
Coating diameter	245 +/- 5 µm
Maximum Cladding/Coating Concentricity Error	12 µm
Operating temperature range	-60 to +85°C
Test load	100 kpsi

Product variants & accessories

Art.-No.	Description
L-UDQ(ZN)BH048E09D	FO Universal Cable 48E9/125µm OS2 6kN with non-metallic rodent protection
L-UDQ(ZN)BH048G50-3D	FO Universal Cable 48G50/125µm OM3 6kN with non-metallic rodent protection
L-UDQ(ZN)BH048G50D	FO Universal Cable 48G50/125µm OM2 6kN with non-metallic rodent protection