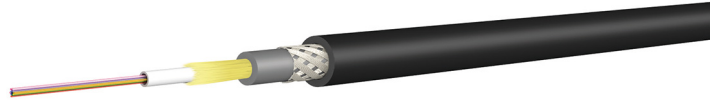


FIBER OPTIC CABLE Steel-Armoured Multi-Fiber Loose Tube Cable

Description

24-.../W(ZN)HAR-...82

- Metal free indoor and outdoor cable
- Rodent-protected, steel-armoured
- For use in ducts and in unprotected environment
- For high mechanical and thermal stability
- Low smoke, halogen free and self-extinguishing
- Low fire load for high safety requirements



Available Types

Type of Fiber

E9/125	according to IEC 60793-2-50 Typ B1.3 + ITU G.652.D
E9/125A1	according to IEC 60793-2-50 Typ B6_a1 + ITU G.657.A1
E9/125A2	according to IEC 60793-2-50 Typ B6_a2 + ITU G.657.A2
G50/125-OM2	according to IEC 60793-2-10 Typ A1a + ITU G.651
G50/125-OM3	according to IEC 60793-2-10 A1a2 + ITU G.651 BendOptimized
G50/125-OM4	according to IEC 60793-2-10 A1a3 + ITU G.651 BendOptimized

Standard Colours

Fiber:	According to colour code
Tube:	White or natural
Jacket (outer):	Black

Technical Data

Construction

Description / Material	Size	Options / Notice
24 Optical fiber	250 µm	Fiber type, colour
1 Multi-fiber loose tube, up to 24 fibers each	2.8 mm	Colour, jelly-filled
Reinforcement / aramide yarn		
Jacket / PE flame retardant	5 mm	Colour
1 Ripcord		
Outer jacket / RADOX	8.2 mm	Colour, inscription

Mechanical data

Characteristics	Conditions	Tested acc. to	Values
Weight			114 kg/km
Tensile strength	During installation In service	IEC 60794-1-21 E1	3750 N 2000 N
Minimal bending radius	During installation In service	IEC 60794-1-21 E11	120 mm 80 mm
Crush resistance	During installation In service	IEC 60794-1-21 E3	8000 N/dm 2000 N/dm
Impact resistance	W _p = 4.5 J	IEC 60794-1-21 E4	50 impacts
Repeated bending	Radius = 110 mm / Weight = 2.5 kg	IEC 60794-1-21 E6	10000 cycles
Kink resistance	Radius 10 mm	IEC 60794-1-21 E10	passed
Torsion	Angle = ±180° / Length = 1000 mm 200°/s	IEC 60794-1-21 E7	70000 cycles

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Environmental Data

Characteristics	Conditions	Tested acc. to	Values
Temperature range	During installation In service In storage	IEC 60794-1-22 F1	-20 °C up to +70°C -50 °C up to +85°C -50 °C up to +85°C
Fire load			1.7 MJ/m
Fire propagation	On a vertical single cable On a vertical cable bundle	IEC 60332-1-2 IEC 60332-3-25	passed passed
Fire Test: smoke density	Jacket material	IEC 61034-2	passed
Fire Test: halogen acid gas	Jacket material	IEC 60754-1	halogen free
Fire Test: degree of acidity	Jacket material	IEC 60754-2	passed
2011/65/EC (RoHS)			compliant

Specification for singlemode at 1550nm, for multimode at 1300nm

Comment

RADOX® jacket material compliant to EM 104 specification of EN 50264-1 for railway rolling stock application