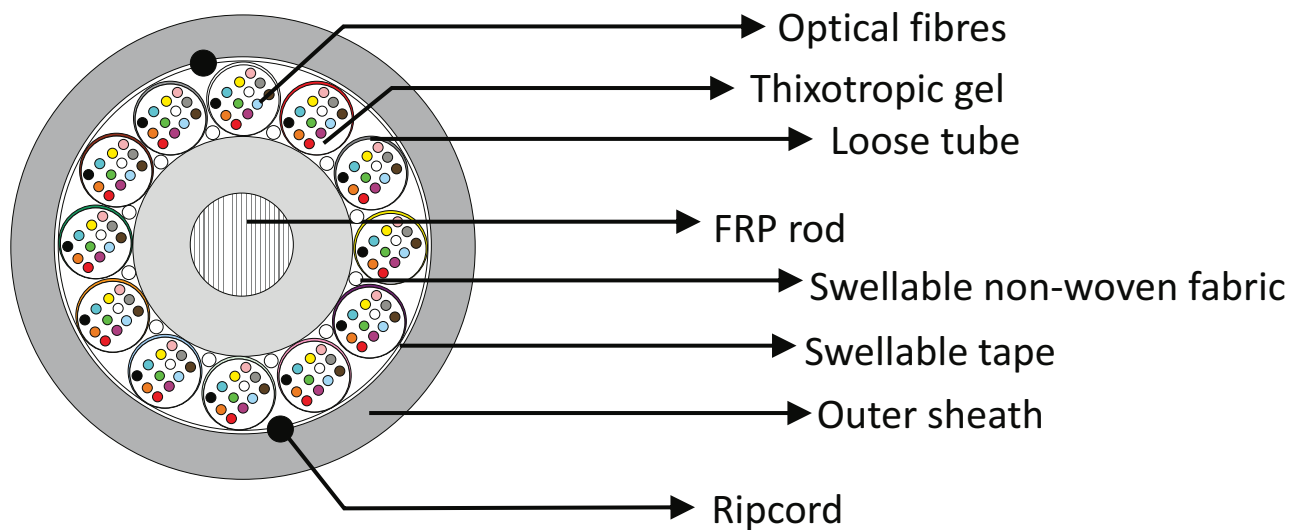


Product Information

AF05: Outdoor cable, gel filled, A-DQ(ZN) 2Y 2100N, equivalent of Z-XOTKtsd

12-144 single-mode optical fibres; loose tube structure; 6 or 12 fibres per tube
 Ø 2.2 or 2.4 mm; outer sheath: black HDPE, UV-resistant, for pulling and blowing

PI_102371X5.Y_01.15



Application

Outdoor applications
 Construction of large telecom networks,
 CATV and CCTV

Standards

EN 187 000
 IEC 60794-3, PN EN 60794-3; 2002 (U)
 PN EN 60793-1-1; 2003 (U)
 IEC 60794-3-10
 IEC 60794-3-12
 ISO 11801 2-nd Edition
 PN EN 50173-1
 PN EN 41003; 2001
 ITUT G.652D

Structure

Central strength member	Ø 3.5 mm – dielectric FRP rod
Loose tube	Ø 2.2 mm or 2.4 mm, gel filled, 6 or 12 fibres per tube
Water resistance	Cable core protected with non-woven fabric and swellable tape
Rip cord	Polyester cord for easy sheath cutting – ripcord
Cable sheath	Thickness - 1.5 mm, black HDPE

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Mechanical parameters

Property	Testing methodology	Value
Maximum tensile strength	E1	2100N
Impact	E4	10Nm
Torsion	E7	± 360 °
Temperate ranges	F1	Operation: -40°C +70°C
		Installation: -10°C +55°C
		Storage and transport: -10°C +55°C
Minimum bend radius		Short-term: 15 x D
		Long-term: 20 x D
Fibre colours*		Colour BL OR GR BR GR WH RE GR YE VIO PI TU
Tube colours*		Colour BL OR GR BR GR WH RE GR YE VIO PI TU

*Cables can be delivered in fibre or tube colours per customers' requirements, e.g. IEC-60304.

Transmission parameters

Parameter	
Fibre type	G.652D (OS2)
Attenuation for 1310 nm wave	≤ 0.35 dB/km
Attenuation for 1550 nm wave	≤ 0.22 dB/km
Attenuation for 1383 nm (± 3 nm) wave	≤ 0.32 dB/km
Attenuation for 1625 nm wave	≤ 0.25 dB/km
Cut-off wavelength	≤ 1260 nm
Chromatic dispersion 1285 – 1330 nm	≤ 3.5 ps/nm/km
Chromatic dispersion 1550 nm	≤ 18 ps/nm/km
Chromatic dispersion 1625 nm	≤ 22 ps/nm/km
Fibre cladding diameter	125.0 ± 0.7 µm
Sheath diameter, colourless	245.0 ± 5 µm
Mode field diameter: 1310 nm	9.2 ± 0.4 µm
Mode field diameter: 1550 nm	10.4 ± 0.5 µm

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Number of fibres (number of fibres per tube)	Cable nominal diameter	Cable nominal weight
12J (2x6)	10.8 mm	90 kg/km
24J (4x6)	10.8 mm	90 kg/km
24J (2x12)	11.3 mm	92 kg/km
48J (4x12)	11.3 mm	95 kg/km
72J (6x12)	11.3 mm	100 kg/km
96J (7x12)	12,5 mm	125 kg/km
144 (12x12)	15.2 mm	175 kg/km

Ordering information

Index	Number of fibres	Product description
10237165.2	12J (2x6)	Cable FO A-DQ(ZN)2Y 12E 9/125 2x6 9/125 2100N
10237185.2	24J (2x12)	Cable FO A-DQ(ZN)2Y 24E 9/125 2x12E 9/125 2100N
10237185.4	24J (4x6)	Cable FO A-DQ(ZN)2Y 24E 9/125 4x6E 9/125 2100N
102371B5.4	48J (4x12)	Cable FO A-DQ(ZN)2Y 48E 9/125 4x12E 9/125 2100N
102371G5.6	72J (6x12)	Cable FO A-DQ(ZN)2Y 72E 9/125 6x12E 9/125 2100N
102371H5.8	96J (8x12)	Cable FO A-DQ(ZN)2Y 96E 9/125 8x12E 9/125 2100N
102371J5.12	144J (12x12)	Cable FO A-DQ(ZN)2Y 144E 9/125 12x12E 9/125 2100N