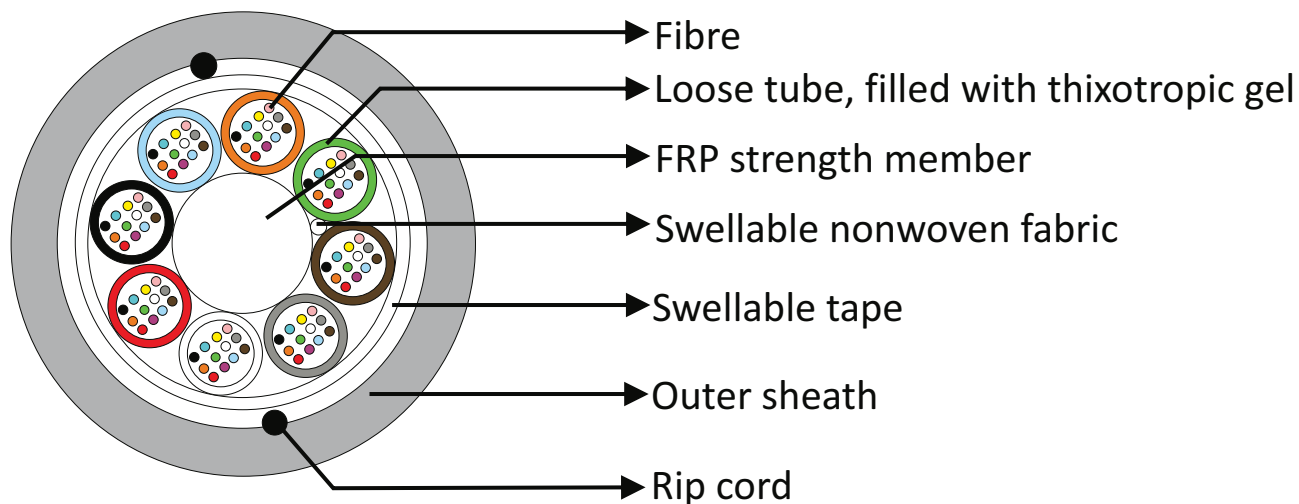


Product Information

AN01: Indoor and outdoor cable, multi-tube, gel filled, U-DQH LSZH 2100N, equivalent of ZW-NOTKtsd.
48 -144 single-mode fibres. Black halogen-free LSZH sheath, UV-resistant.

DIN/VDE U-DQH

PI_102521XY.Z_01.15



Application

Universal, indoor and outdoor cable
Intended for telecom networks, CATV and CCTV
LAN backbones, campus network
Computer network.

Standards

EN 187 000
ISO 11801 2-nd Edition
PN EN 50173-1:2002
PN EN 60793-1-1
PN EN 60793-2
PN EN 60794-2
PN EN 60794-3
PN EN 41003; 2001

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Structure

Central strength member	Ø 3.5 mm – dielectric FRP rod												
Loose tube	Ø 2.4 mm filled with thixotropic gel, 12 fibres per tube												
Water resistance	Cable core protected with nonwoven fabric and swellable tape												
Rip cord	Two polyester cords for easy sheath cutting – ripcord												
Cable sheath	Thickness - 1.5 mm, black LSZH												
Fibre colours	Colour	BL	OR	GR	BR	GR	WH	RE	GR	YE	VIO	PI	TUR
Tube colours	Colour	BL	OR	GR	BR	GR	WH	RE	GR	YE	VIO	PI	TUR

Fire resistance

IEC 60332-1-2	Single vertical wire test
IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034-2	No dense smoke

Mechanical properties

Properties	Testing methodology	Value
Maximum tensile strength	E1	2100 N
Impact	E4	10 Nm
Torsion	E7	± 360°C
Temperate ranges	F1	Operation: -30°C +50°C Installation: -10°C +50°C Storage and transport: -40°C - ca. +70°C
Minimum bend radius		Short-term: 15 x D Long-term: 20 x D

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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

Number of fibres (number of fibres per tube)	Cable nominal diameter	Cable nominal weight
48J (4x12)	11.3 mm	120 kg/km
72J (6x12)	11.3 mm	125 kg/km
96J (7x12)	12.5 mm	155 kg/km
144 (12x12)	15.2 mm	210 kg/km

Ordering Information

Index	Number of fibres	Product description
102521B5.4	48J (4x12)	Cabel FO U-DQH 48E 9/125 4x12E 9/125 2100N
102521G5.6	72J (6x12)	Cabel FO U-DQH 72E 9/125 6x12E 9/125 2100N
102521H5.8	96J (8x12)	Cabel FO U-DQH 96E 9/125 8x12E 9/125 2100N
102521J5.12	144J (12x12)	Cabel FO U-DQH 144E 9/125 12x12E 9/125 2100N