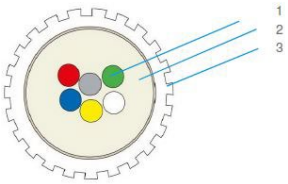
Description: Smooth Fibre Unit 2 to 12 Fibre OS2
PE Sheath Yellow

Product Construction

Fibre Type (1)	:	OS2, G.657.A1
Number of Fibres	:	See Table A
Inner Layer (2)	:	Acrylate
Outer Sheath Material (3)	:	Polyethylene (PE), Ribbed
Colour	:	Yellow



CPR
CONSTRUCTION PRODUCTS REGULATION
BS EN 50575
Class Fca
Independently Verified

Cable Characteristics

Overall Diameter		:	See Table A
Temperature Range	Storage	:	-10°C to +50°C
	Install	:	-5°C to +50°C
	Operation	:	-30°C to +70°C
Tensile Load Short Term		:	See Table A
Bending Radius		:	See Table A
Weight		:	See Table A

Certifications & Standards

Fibre Optic Standard	:	IEC 60793-2-50, ITU-T G.657.A1
Test Procedures	:	IEC 60794-1-2
RoHS 3 Compliant	:	Yes
REACH Compliant	:	Yes
CE CPR Classification	:	Fca to EN 50575:2014+A1:2016

Table A

No. of Fibres	Minimum Bending Radius During Install	Minimum Bending Radius After Install	Tensile Load Short Term	OD mm	Weight kg/km
2	20mm	25mm	20N	1.4	1
4	20mm	25mm	20N	1.4	1
6	20mm	25mm	25N	1.4	2
8	30mm	35mm	30N	1.5	2
12	30mm	35mm	30N	1.7	3

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Fibre Colour Code

1	2	3	4	5	6	7	8	9	10	11	12
Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Turquoise	Black	Orange	Pink

G.657.A1 Fibre Performance

Cabled Attenuation

nm	Attenuation (per km)
1310	≤ 0.36 dB
1550	≤ 0.23 dB
1625	≤ 0.25 dB

Macro Bending Loss	:	≤ 0.05 dB @ 1550nm (100 turns; Φ50 mm)
		≤ 0.05 dB @ 1625nm (100 turns; Φ60 mm)
		≤ 0.10 dB @ 1550nm (10 turns; Φ30 mm)
		≤ 0.30 dB @ 1625nm (10 turns; Φ30 mm)
	:	≤ 0.75 dB @ 1550nm (1 turn; Φ20 mm)
		≤ 1.50 dB @ 1625nm (1 turns; Φ20 mm)
Mode Field Diameter	:	9.0 ± 0.3μm @ 1310nm
		10.2 ± 0.4μm @ 1550nm
Cable Cut-Off Wavelength	:	≤ 1260nm
Fibre Curl	:	≥ 4m
Core Non-Circularity	:	≤ 6%
Core/Clad Concentricity Error	:	≤ 0.4μm
Cladding Diameter	:	125 ± 0.5μm
Cladding Non-Circularity	:	≤ 0.7%
Coating Diameter	:	242 ± 5μm
Coating/Cladding Concentricity Error	:	≤ 8%
Temperature Sensitivity	:	≤ 0.05 dB/km (-60°C to +85°C)
Proof Stress	:	≥ 0.70 Gpa
Zero Dispersion Wavelength	:	1300~1324 nm
Zero Dispersion Slope	:	≤ 0.090 ps/nm²·km
PMD	:	≤ 0.10 ps/ √km
PMD_Q	:	≤ 0.04 ps/ √km
Chromatic Dispersion	:	≤ |3.2| ps/nm·km @ 1285 - 1330nm
		≤ 17 ps/nm·km @ 1550nm
		≤ 21 ps/nm·km @ 1625nm
Effective Group Core Refractive Index	:	1.4671 @ 1310nm
		1.4675 @ 1550nm
		1.4680 @ 1625nm