

Description	9/125 G.657.A2 single-fiber cable, LSZH jacket, Cca, preterminated with SC/APC connectors
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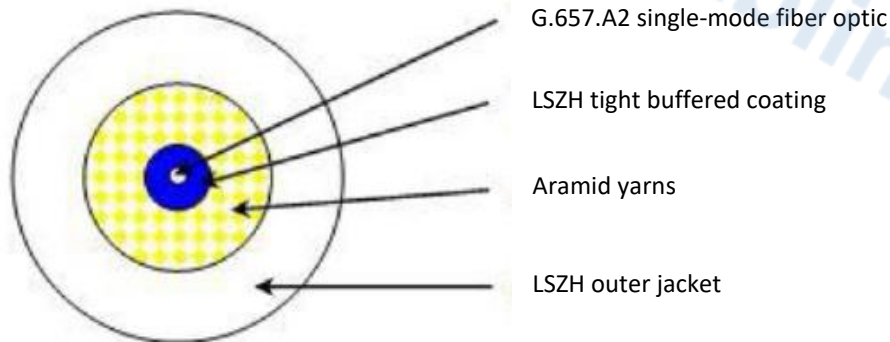


SC/APC connector to be assembled

### Description

Tight buffered cable with one single-mode fiber G.657.A2, LSZH sheath, Euroclass Cca s1a, d0, a1, preterminated at both ends with SC/APC connectors. Suitable for implementing fiber optical distributions both in new and existing installations. To facilitate the installation inside the conduits, one end of the cable has a protection braid with inside an SC/APC connector to be assembled.

### Cable section



### Cable constructive characteristics

Cores	900 µm tight buffered fiber
Filler protection	Aramid yarns
Optical fiber type	Single-mode 9/125 type G,657.A2 Bend Insensitive
Outer jacket material	LSZH (Low Smoke Halogen Free)
Jacket color	White
Cable outer diameter	3,0 ± 0,2 mm
Nominal weight	8 Kg/Km

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### ***Cable mechanical and environmental properties***

Use	Indoor
Bend. radius (installation)	15 x outer diameter
Bend. radius (long term)	10 x outer diameter
Max. pull strength (installation)	400 N
Crush resistance	500 N/dm
Operating temperature	from -20°C to +70°C

### ***Reference standards***

Cables and optical fibers	EN 60793 EN 60794-1 ITU-T G.657.A2
Structured cabling	EN 50173-1 ISO/IEC 11801 ANSI/TIA 568.3-D

### ***Fire behavior***

CRP regulation	EN 50575 Euroclass Cca s1a, d0, a1
Fire reaction	EN 50399 EN 60332-1

### ***Reference codes***

SM G.657.A2 single-fiber cable preterminated with SC/APC connectors, Euroclass Cca - 5 mt	Cod. 2004240
SM G.657.A2 single-fiber cable preterminated with SC/APC connectors, Euroclass Cca - 10 mt	Cod. 2004241
SM G.657.A2 single-fiber cable preterminated with SC/APC connectors, Euroclass Cca - 15 mt	Cod. 2004242
SM G.657.A2 single-fiber cable preterminated with SC/APC connectors, Euroclass Cca - 20 mt	Cod. 2004243
SM G.657.A2 single-fiber cable preterminated with SC/APC connectors, Euroclass Cca - 30 mt	Cod. 2004244
SM G.657.A2 single-fiber cable preterminated with SC/APC connectors, Euroclass Cca - 40 mt	Cod. 2004245
SM G.657.A2 single-fiber cable preterminated with SC/APC connectors, Euroclass Cca - 50 mt	Cod. 2004246

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## SINGLE-MODE OPTICAL FIBER SPECIFICATIONS

<i>Optical fiber type</i>	<i>9/125 OS2 (ITU G.657.A2)</i>
Cladding diameter	125 ± 0,7 μm
Primary coating diameter	235-245 μm
Cladding Non-Circularity	≤ 0,7%
Concentricity error core/cladding	≤ 0,5 μm
Concentricity error cladding/coating	≤ 12 μm
Attenuation λ=1310 nm	≤ 0,35 dB/Km
Attenuation λ=1550 nm	≤ 0,30 dB/Km
Attenuation λ=1625 nm	≤ 0,40 dB/Km
Group Index @ 1310 nm	1,467
Group Index @ 1550 nm	1,468
Cable cut-off wavelength	λ <sub>cc</sub> ≤ 1260 nm
Zero-dispersion wavelength λ <sub>o</sub>	1302-1322 nm
Slope at λ <sub>o</sub>	S <sub>o</sub> ≤ 0,092 ps/(nm <sup>2</sup> ·Km)
Mode field diameter @ 1310 nm	8,4-9,2 μm
Mode field diameter @ 1550 nm	9,4-10,4 μm
PMD	≤ 0,1 ps/√Km
Tensile Proof Test	100 kpsi (0.69 GPa)
Macrobending 10 turns, 15 mm, @ 1,550 nm	≤ 0,03 dB
Macrobending 10 turns, 15 mm, @ 1,625 nm	≤ 0,1 dB
Macrobending 1 turn, 10 mm, @ 1,550 nm	≤ 0,1 dB
Macrobending 1 turn, 10 mm, @ 1,625 nm	≤ 0,2 dB
Macrobending 1 turn, 7.5 mm, @ 1,550 nm	≤ 0,5 dB
Macrobending 1 turn, 7.5 mm, @ 1,625 nm	≤ 1,0 dB

**Optical fibers are fully compliant with IEC/EN 60793-1, IEC/EN 60793-2, EN 50173 and ISO/IEC 11801**