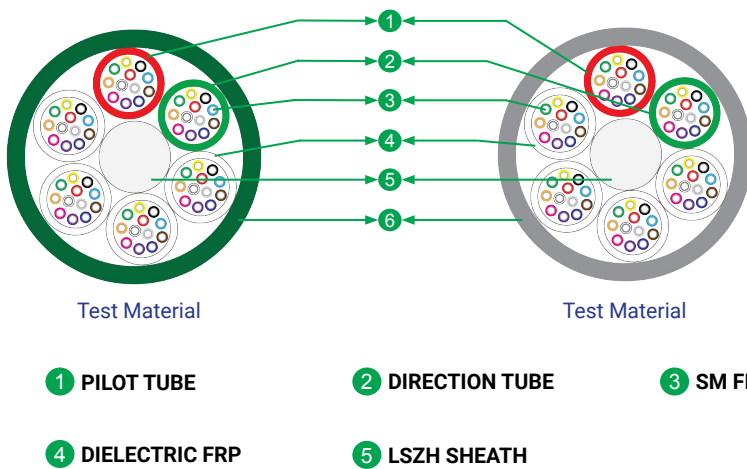


UT Microduct

LSZH microcables with dielectric FRP for 'blowing' installation
CPR compliant



* Typical Construction Diagram - Not to Scale

Features & Benefits

- **Superior Bendability** : G.657.A2 offers superior bending performance compared to G.652.D, making it more flexible for tight routing within buildings and reducing potential signal loss during installation.
- **Long-Distance Signal Transmission** : G.657.A2 excels in long-distance signal transmission, maintaining a strong signal even over extended FTTH runs, ideal for connecting homes spread out over larger areas.
- **Future-Proofing for Bandwidth Growth** : G.657.A2 accommodates the ever-increasing bandwidth demands of FTTH applications like streaming, 4K video, and online gaming, ensuring your network is prepared for future growth.
- **CPR-Compliant Fire Safety** : G.657.A2 cables with CPR compliance meet strict European fire safety standards for indoor use, providing peace of mind and minimizing fire hazards within buildings.
- **Scalable Deployment Options** : With various fiber counts (1, 8, 12, and 24) available, you can choose the optimal G.657.A2 cable for your specific FTTH project needs, considering subscriber density and future bandwidth requirements.

Product Details

Deliver future-proof FTTH connectivity with STL's CPR-compliant single-mode G.657.A2 fiber optic cables. Available in 1, 8, 12, and 24 fiber counts, these cables offer scalability for diverse FTTH deployments. Superior bendability simplifies installation in space-constrained areas, while long-distance signal transmission ensures reliable performance over extended runs. Built for demanding applications, they support high bandwidths at 1310nm and 1550nm wavelengths.

Fibres and Cable Performance Standards

Cable complies with the following standards: European Regulation n° 305/2011, EN 50575:2014 + A1:2016, Cca, s1b, d1, a1, CEI EN 60794-1-2, IEC 60794-1-2-E1A and B, IEC 60794-1-2-E4, IEC 60794-1-2-E3, IEC 60794-1-2-F1, IEC 60794-1-2-E10, IEC 60794-1-2 E18A proc. 2

Printing Details

Printing: "METALLURGICA BRESCIANA week/year – designation code – customer's reference – Euroclasse CPR" + any other content which customer request for

Note: The accuracy of marking shall be + 0.5%.

Specifications

Physical Characteristics	
Maximum Cabled Attenuation (dB/km)	1310nm : 0.4 & 1550nm : ≤0.1
PMD (ps/sqrt.km)	≤ 0.20
Fibre	1/8/12/24, STL HD A2 Fibre (ITU-T G.657 A2) (245 µm)
Tight Buffer	Thermoplastic compound LSZH with Aramid yarn
Strength Members	Aramid yarns, ≥ 4500 dTex
Outer Jacket	Thermoplastic compound LSZH, colour: ivory (RAL 9002)
Cable Diameter (mm)	2.6 ± 0.1
Covering	Optional (Eventual tight covering)
Euroclass CPR	Cca, s1b, d1, a1

Cable Characteristic		
Reference Standard: ITU-T G.657A2		
Nominal MFD range at 1310 nm		Min. 8,6 µm – Max. 9,2 µm
Cladding diameter		125 ±0,7 µm
Coating diameter		250 ±15 µm
Core/Cladding concentricity error		≤ 0,50
Cladding non-circularity		≤ 1,00
Attenuation	1310 nm	≤ 0,35 dB/Km
Attenuation	1385 nm	≤ 0,33 dB/Km
Attenuation	1550 nm	≤ 0,21 dB/Km
Attenuation	1625 nm	≤ 0,22 dB/Km
Chromatic dispersion coefficient	1550 nm	≤ 18 ps/nm·Km
Chromatic dispersion coefficient	1625 nm	≤ 22 ps/nm·Km
Zero chromatic dispersion wavelength, λ ₀		1300 ≤ λ ₀ ≤ 1324 nm
Cable cut-off wavelength		≤ 1260 nm
Individual fibre polarization mode dispersion (PMD)		≤ 0,20 ps√(km)
Zero dispersion slope		≤ 0,092 ps/nm ² /Km

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard Method	Cable Performance
Pulling Resistance	IEC 60794-1-21 E1	150 N
Crush Resistance	IEC 60794-1-21 E3	500 N
Impact Resistance	IEC 60794-1-21 E4	1J; 3 shots
Thermic Cycles	IEC 60794-1-22 F1	-10°C +60°C
Strippability	IEC 60794-1-2-E5	positive
Kink	IEC 60794-1-2-E10	Ø kink min. < 10 mm a 20°C

Note 2: All tests shall be carried out as per IEC standards. Change in attenuation after and before testing shall be ≤ 0.05 dB/km for Single Mode fibre.

Packing and Lengths

Drum Type	Length Multiple (in km)	Order Tolerance	Short Lengths
Wooden Drums	2/4 \pm 5%	\pm 5%	Max 5%, Customer Approval

For additional information please contact your sales representative.

You can also visit our website at www.stl.tech

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