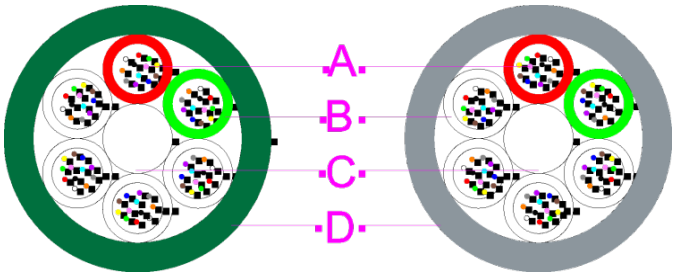
Alcadon

Mod. 15-SP-98gb

Metallurgica Bresciana s.p.a

Technical Dept.	TECHNICAL DATA SHEET	Specification n° 2385.FO.800

LSZH MICROCABLES FOR "BLOWING" INSTALLATION
CPR compliant



Intended use:

Optical cables for telecommunications in buildings and other civil engineering works subject to fire reaction requirements

REFERENCES REGULATIONS:

• European Regulation n ° 305/2011
• EN 50575: 2014 + A1: 2016

Fire Reaction Class

Specifications	Euroclass
TIM CT 908	Cca, s3, d1, a3
INFRATEL INF-ING-ST-007-18	Cca, s1b, d1, a1
FASTWEB TND-ARCH-2017-004	Cca, s1b, d1, a1
OPENFIBER ST 1701	Cca, s1b , d1, a1
Vodafone ST 508993 - 1 - 2	Cca, s1b, d1, a1

REFERENCE TECHNICAL SPECIFICATIONS:

• TIM CT 908
• Infratel INF-ING-ST-007-18
• Fastweb TND-ARCH-2017-004
• OpEn Fiber ST 1701
• Vodafone ST 508993 - 1 - 2

						CABLE CODE
0	EMISSION	24/01/18				
1	REVISION	11/14/18				Replace n.
2	REVISION	29/08/19				Of
Rev.	Description	Date	Drawn up	Controlled	Seen	Sheet 1 of 3

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CONSTRUCTION:

• A) Fibers:
- single mode SM 9/125/250 µm (ITU-T G652)
- single mode SM-NZD 9/125 / 250 µm (ITU-T G655)
- single mode SM 9/125/250 µm (ITU-T G657.A1)
- single mode SM 9/125/200 µm (ITU-T G657.A1)
- single mode SM 9 / 125/200 µm (ITU-T G657.A2)

• B) Tube: in PBT buffered with anti-humidity gel

• Identification: the tubes and fibers will be identified by color code

• C) Assembly: the tubes will be stranded together around to a central dielectric element FRP

• D) Outer sheath: LSZH colored material:
- green
- other colors available on request

- absolute minimum thickness: 1.30 mm

The sheath can be made of one or more layers in order to satisfy the requirements set out in § 5 of the chapters to ST 908
In the case of multilayer sheath the absolute minimum thickness of the outer layer must be 0.40 mm

Marking: to be agreed in the order phase, according to the reference specifications

POTENTIAL:

Item	Sigla CEI UNEL	N° tot di fibre	N° di tubi	N° di fibre per tubo	N° di riempitivi	Diametro massimo [mm]	Peso approssimativo del cavo [kg/km]
1	TOL6D 12 1(12 SM)T/M	12	1	12	5	8,20	70
2	TOL6D 24 2(12 SM)T/M	24	2	12	4	8,20	70
3	TOL6D 48 4(12 SM)T/M	48	4	12	2	8,20	70
4	TOL6D 60 5(12 SM)T/M	60	5	12	1	8,20	70
5	TOL6D 72 6(12 SM)T/M	72	6	12	0	8,20	70
6	TOL6D 96 4(24 SMBI A1)T/M	96	4	24	2	8,20	75
7	TOL6D 144 6(24 SMBI A1)T/M	144	6	24	0	8,20	80
8	TOL6D 24 6(4 SM)T/M	24	6	4	0	8,20	70

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CHARACTERISTICS:

Pulling force	600 N for cables <= 72 fibres 1000 N for cables >= 96 fibres all. fibre ≤ 0.5% At the end of the test no increase in attenuation should be found at 1550 nm (≤ 0.1dB).	IEC 60794-1-2, Method E1 A e B
Impact	3 J, 3 impacts, R= 300 mm. At the end of the test no increase in attenuation should be found at 1550 nm (≤ 0.1dB).	IEC 60794-1-2, method E4
Crush	1000 N/10cm (5 min.) At the end of the test no increase in attenuation should be found at 1550 nm (≤ 0.1dB).	IEC 60794-1-2, method E3
Repeated bending	25 double bends on a mandrel = 20 Ø At the end of the test no increase in attenuation should be found at 1550 nm (≤ 0.1dB) or cable damages	IEC 60794-1-2, method E6
Torsion	2 m sample, 100 N, +- 180°, 5 cycles At the end of the test no increase in attenuation should be found at 1550 nm (≤ 0.1dB) or cable damages	IEC 60794-1-2, method E7
Bending test	mandrel = 20 Ø, 5 turns, 3 cycles At the end of the test no increase in attenuation should be found at 1550 nm (≤ 0.1dB) or cable damages	IEC 60794-1-2, method E11
Water penetration test	positive	IEC 60794-1-2, method F5B
Thermic cycles	-30 °C +60 °C no increase in attenuation should be found at 1550 nm (≤ 0.1dB) o	IEC 60794-1-2, method F1

OPTICAL FEATURES:

according to the technical specifications of reference

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