

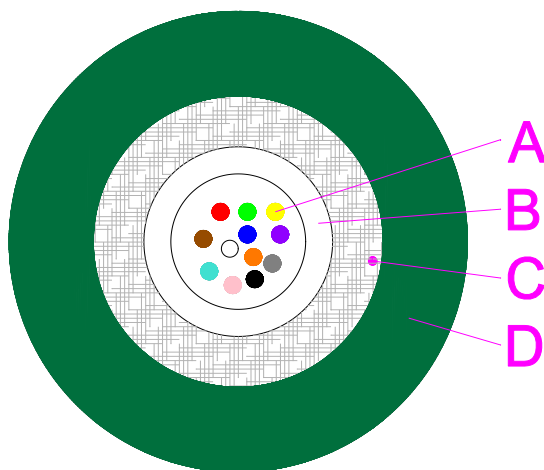
Metallurgica Bresciana s.p.a

Technical Dept.

TECHNICAL DATA SHEET

Specification n° 2507.FO.800

MONOTUBE OPTICAL CABLE
DIELECTRIC ARMOUR
CPR UE 305/11: B2ca, s1a, d0, a1

**Intended use:**

Optical Cable for telecommunication in buildings and other civil engineer works subject to fire reaction requirement

Normative reference:

- EU regulation n° 305/2011
- EN 50575:2014 + A1:2016

Fire reaction Euroclass

B2ca, s1a, d0, a1

						CABLE CODE
0	EMISSION	11/03/19				Replace n.
1	REVISION	19/09/19				Of
Rev.	Description	Date	Drawn up	Controlled	Seen	Sheet 1 of 3

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CONSTRUCTION:

- A) Fibre:
 - single-mode SM 9/125/250 µm (ITU-T G652D)
 - multi-mode MM 50/125/250 µm (IEC 60793-2-10 A1)
 - (other type of fibres available on request)**
- B) Tube: PBT tube, jelly filled, containing up to 24 fibres
- Fibres identification: as per colour code
- C) Armour: dielectric, composed by glass yarns
- D) Outer sheath:
 - LSZH compound type M16 according to CEI 20-11/0-1;V1
 - colour:
 - green (RAL 6029)
 - grey (RAL 7001)
 - other colours available on request
 - nominal thickness: 1,00 mm
 - external diameter: 7,00 mm ± 0,50 mm
- Marking (Ink-Jet):

“METALLURGICA BRESCIANA year– OPTICAL CABLE
TOL1 n°FO 1(n°FO [FO type])/VM – B2ca, s1a, d0, a1” + eventual
Client customization

POTENTIALITY

ITEM	CEI UNEL Identification	ITEM	CEI UNEL Identification
1	TOL1 2 1(2 “FO”)/VM	7	TOL1 14 1(14 “FO”)/VM
2	TOL1 4 1(4 “FO”)/VM	8	TOL1 16 1(16 “FO”)/VM
3	TOL1 6 1(6 “FO”)/VM	9	TOL1 18 1(18 “FO”)/VM
4	TOL1 8 1(8 “FO”)/VM	10	TOL1 20 1(20 “FO”)/VM
5	TOL1 10 1(10 “FO”)/VM	11	TOL1 22 1(22 “FO”)/VM
6	TOL1 12 1(12 “FO”)/VM	12	TOL1 24 1(24 “FO”)/VM

N.B.: “FO” substitute whit type of Fibre Optic chosen

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CHARACTERISTICS:

- | | | |
|---|------------------------|--|
| • Approximate weight: | | 70 kg/km |
| • Minimum bending radius: | IEC 60794-1-E11 | 70 mm (temporary)
105 mm (permanent) |
| • Operating temperature: | IEC 60794-1-F1 | -20°C +60°C |
| • Pulling tension: | IEC 60794-1-E1 | 1500 N |
| • Crush resistance: | temporary
permanent | 900 N/10 cm (no FO breaking)
500 N/10 cm (no FO breaking) |
| • Smoke density: | | IEC 61034-1&2 (CEI 20-37/3-1) |
| - Transmittance: | | ≥ 60 % |
| • Amount of halogen acid gas during the combustion: | | IEC 60754-1 (CEI 20-37/2-1) |
| - HCl: | | ≤ 0,5 % |
| • Degree of acidity of gasses (corrosivity) | | IEC 60754-2 (CE 20-37/2-2) |
| - pH: | | ≥ 4,3 |
| - conductivity: | | ≤ 10 μS/mm |
| • Determination of toxicity index | EN 50305 | ≤ 2 |
| • UV resistance external sheath | ASTM D 2565 | ≤ 15 % |

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