

Description

Coaxial Cable for underground installation with side pipe - 75 Ohm

Underground installation cable (Screening Class A)

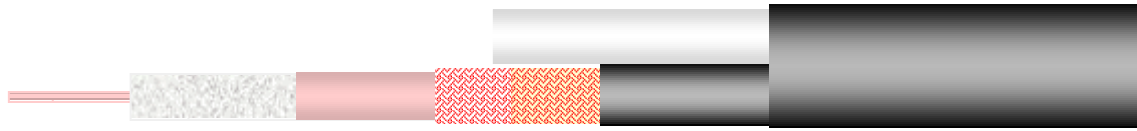
Coaxial Cables

CAVEL®

since 1968

Data Sheet

11/48LOPIPE



| | | | | | |
|------|-------|----------|------|------|-------------|
| 1,13 | 4,80 | 4,90 | 5,38 | 7,30 | 8,10 x15,30 |
| (Cu) | (PEG) | (Cu/Pet) | (Cu) | (PE) | (PE) |

Constructive data

| | | | |
|---|-------------|---------------------|----|
| Inner conductor of plain copper | (Cu) | 1,13 ± 0,02 | mm |
| Dielectric of physical foam polyethylene | (PEG) | 4,80 ± 0,10 | mm |
| Water repellent sealing (dielectric) | (Jelly1) | | |
| Outer Copper/Polyester tape longitudinally overlapped | (Cu/Pet) | | |
| Braid of annealed copper wires | (Cu) | | |
| Braid optical coverage (IEC 96-1) | | 61 % | |
| Tracer Identifier | Year + Flag | | |
| Diameter under Sheath | | 5,38 | mm |
| Inner sheath of Polyethylene black with carbonblack | (PE) | 7,30 ± 0,10 | mm |
| Outer sheath of Polyethylene - black - with carbonblack | (PE) | 15,30 x 8,10 ± 0,10 | mm |

Printed each meter by yellow ink-jet :

CAVEL 1.1/4.80 LO + PIPE MADE IN ITALY 75 Ohm EN50117 ss/aa - m

(ss=week, aa=year) (m=meter marking)

| | | | | | |
|--|--------|-------|---|-------------|----|
| Side Pipe in High Density Polyethylene | (HDPE) | Inner | ∅ | 5,50 ± 0,20 | mm |
| | | Outer | ∅ | 7,20 ± 0,20 | mm |

Electrical data

| | | |
|---|--------|-------------------------|
| Characteristic impedance (@ 200 MHz) | 75 ± 3 | Ohm |
| Capacitance (@1kHz) | 52 ± 2 | pF/m |
| Propagation factor | 85 % | |
| Inner conductor resistance | 18 | Ohm/km |
| Outer conductor resistance | 13,50 | Ohm/km |
| Loop resistance | 31,50 | Ohm/km |
| Insulation voltage of the sheath (spark test) | 8 | KV |
| Maximum current (I _{eff}) | 8,00 | A |
| Structural return loss (SRL) | | |
| 5 - 470 MHz | >30 dB | --- |
| 470 - 1000 MHz | >28 dB | --- |
| 1000 - 2000 MHz | >26 dB | --- |
| 2000 - 3000 MHz | >22 dB | --- |
| Screening attenuation (SA) | | Transfer impedance |
| 30 - 1000 MHz | >85 dB | 5 - 30 MHz > 0,5 mOhm/m |

ITALIANA CONDUTTORI s.r.l.

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Date

16/12/2008

Responsible

Giuseppe Guastella

Description

Coaxial Cable for underground installation with side pipe - 75 Ohm

Underground installation cable (Screening Class A)



Data Sheet

11/48LOPIPE

1000 - 2000 MHz >85 dB
 2000 - 3000 MHz >70 dB

Attenuation (at 20°C):

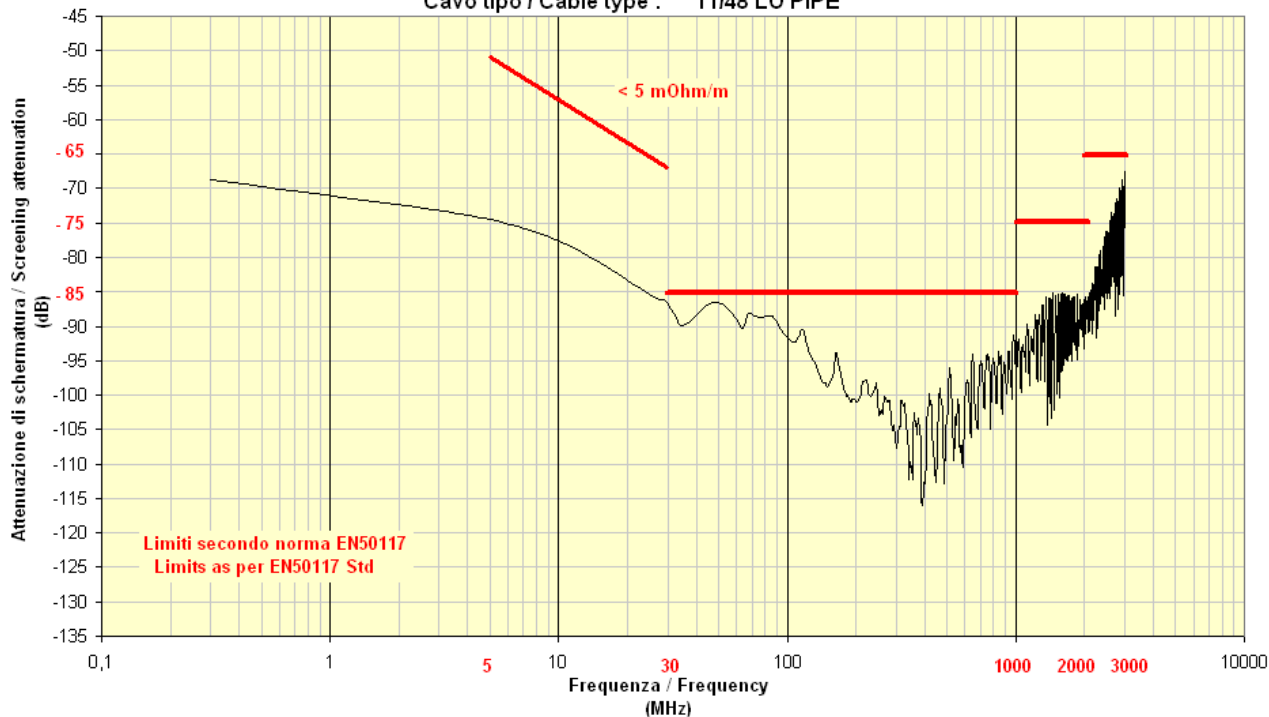
| Frequency [MHz] | Attenuation [dB/100m] | Frequency [MHz] | Attenuation [dB/100m] |
|-----------------|-----------------------|-----------------|-----------------------|
| 5 | 1,50 | 862 | 16,80 |
| 10 | 2,10 | 1000 | 17,90 |
| 30 | 2,90 | 1750 | 24,80 |
| 50 | 3,80 | 2150 | 27,30 |
| 200 | 7,90 | 2400 | 29,10 |
| 300 | 9,70 | 3000 | 33,00 |
| 470 | 12,00 | | |

Mechanical data

Weight of copper conductors 22,36 kg/km
 Total weight of cable 75,01 kg/km
 Minimum bending radius (single/repeated bending) 50 mm
 Maximum cable pulling strength 200 N

**Attenuazione di schermatura / Screening Attenuation
 Cavo classe A / A Class Cable**

Cavo tipo / Cable type : 11/48 LO PIPE



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