

Description

Coaxial Cable for underground installation with side pipe - 75 Ohm

Underground installation cable (Screening Class A)

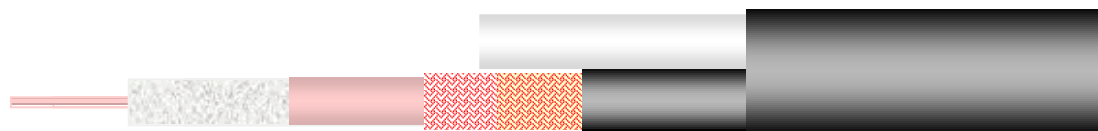
Coaxial Cables

CAVEL®

since 1968

Data Sheet

11/48LOPIPE



Ø	7,30 (PE)	15,30 x 8,10 (PE)
---	--------------	----------------------

Class CPR acc. to UE 305/2011 (DoP)

Fca

The cable can be used in the field of application of the Construction Product Regulation (DoP) UE nr. 305/2011 for the class of performance specified on the related product label.

Standards

EN 50117-2-5

Reaction to Fire

EN50575

Inner sheath of Polyethylene black with carbonblack	(PE)	7,30 ± 0,10	mm
Outer sheath of Polyethylene - black - with carbonblack	(PE)	Ø 15,30 x 8,10 ± 0,10	mm

Printed each meter by yellow ink-jet :

CAVEL 1.1/4.8 LO + PIPE MADE IN ITALY 75 Ohm Euroclass Fca EN50117-2-5 CEI-UNEL 36762 C-4 (U0 = 400V) gggaaan m

(ggg=day)(aa=year)(n=batch) (m=meter marking)

Physical data

Weight of copper conductors	20,50	kg/km
Total weight of cable	73,00	kg/km
Minimum bending radius (single/repeated bending)	50	mm
Maximum cable pulling strength	200	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

Connectors

BNCC703	Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
F125A	Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 24,0 mm x 12,0 mm
FA125	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
FC7.0QM	Series F Compression, Quick Mount, for OUTDOOR installation
FM-TL121	Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 48,5 mm x 15,5 mm
IECFC703	Series IEC Compression, female, no tool, for OUTDOOR installation
IECMC703	Series IEC Compression, male, for OUTDOOR installation
SR01-32	Adapter, for 11/50 - RG11, for UNDERGROUND (Hardline) installation
SR01-46	Adapter, for 11/50FC - 34/145, for UNDERGROUND (Hardline) installation
SR21-44	Adapter, for 11/50FC - 27/115, for UNDERGROUND (Hardline) installation

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date

06/07/2018

Responsible

Alberto Scardovi

Description

Outdoor drop coaxial cable - 75 Ohm

Outdoor installation cable (Screening Class A)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

11/48LO

11/48LOPIPE



Ø	1,13	4,80	4,90	5,30	7,30
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(PE)

Class CPR acc. to UE 305/2011 (DoP)

Fca

The cable can be used in the field of application of the Construction Product Regulation (DoP) UE nr. 305/2011 for the class of performance specified on the related product label.

Standards

EN 50117-2-5

Reaction to Fire

EN50575

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,13 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 4,80 ± 0,10	mm
Copper/Polyester tape longitudinally overlapped	(Cu/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of annealed copper wires	(Cu)		
Braid optical coverage (IEC 96-1)		59	%
Tracer Identifier	Year + Flag		
Diameter over Braid		Ø 5,30	mm
Outer sheath of Polyethylene - black - with carbonblack	(PE)	Ø 7,30 ± 0,10	mm

Printed each meter by yellow ink-jet :

CAVEL 1.1/4.8 LO MADE IN ITALY 75 Ohm Euroclass Fca EN50117-2-5 CEI-UNEL 36762 C-4 (U0 = 400V)
gggaan m

(ggg=day)(aa=year)(n=batch) (m=meter marking)

Physical data

Weight of copper conductors	20,50	kg/km
Total weight of cable	48,00	kg/km
Minimum bending radius (single/repeated bending)	50	mm
Maximum cable pulling strength	200	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		18	Ohm/km
Outer conductor resistance		14,80	Ohm/km
Loop resistance		32,80	Ohm/km

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date

11/05/2017

Responsible

Alberto Scardovi

Description

Outdoor drop coaxial cable - 75 Ohm

Outdoor installation cable (Screening Class A)



Data Sheet

11/48LO

11/48LOPIPE

Sheat Insulation voltage (spark test)		8	kV
Maximum current (Ieff)		8	A
Structural return loss (SRL)			
5 - 470 MHz	>30 dB		
470 - 1000 MHz	>28dB		
1000 - 2000 MHz	>26 dB		
2000 - 3000 MHz	>22 dB		
Screening Attenuation (SA)	SA-Class A	Transfer Impedance (Zt)	Zt-Class A
30 - 1000 MHz	> 85 dB	5 - 30 MHz	< 11,0 mΩ/m
1000 - 2000 MHz	> 90 dB		
2000 - 3000 MHz	> 75 dB		

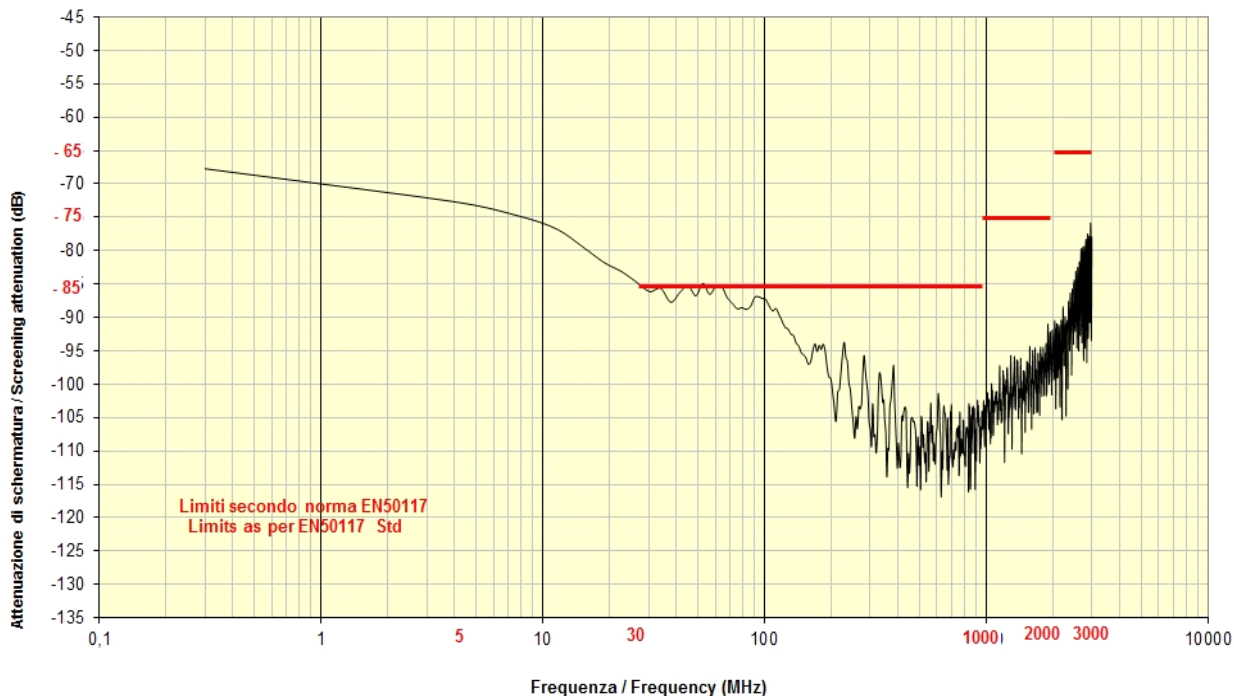
Attenuation (at 20°C)

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		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type: 11/48LO (new version)



ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date

11/05/2017

Responsible

Alberto Scardovi

Description

Outdoor drop coaxial cable - 75 Ohm

Outdoor installation cable (Screening Class A)

**Data Sheet****11/48LO**

11/48LOPIPE

Connectors

FA125	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
F125A	Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 24,0 mm x 12,0 mm
FC7.0QM	Series F Compression, Quick Mount, for OUTDOOR installation
IECFC703	Serie IEC Compression, female, no tool, for OUTDOOR installation
IECMC703	Serie IEC Compression, male, for OUTDOOR installation
BNCC703	Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
FM-TL121	Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 48,5 mm x 15,5 mm
SR01-13	Adapter, for 11/50 - 22/99, for UNDERGROUND (Hardline) installation
SR21-44	Adapter, for 11/50FC - 27/115, for UNDERGROUND (Hardline) installation
SR01-46	Adapter, for 11/50FC - 34/145, for UNDERGROUND (Hardline) installation

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli

Tel +39-382.815150 Fax +39-0382.814212

Date**11/05/2017****Responsible****Alberto Scardovi**

Description

PE/PP Side Pipe

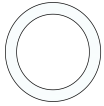
Coaxial Cables

CAVEL[®]

since 1968

Data Sheet**PIPE**

11/48LOPIPE



Ø

5,5 / 7,2 mm

PE+PP

Side Pipe in Polyethylene+Polypropylene blend

(PE+PP)

Inner Ø 5,50 ± 0,20 mm

Outer Ø 7,20 ± 0,20 mm

Physical data

Weight

15,00 kg/km

Maximum Blowing Pressure

20 bar

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli

Tel +39-382.815150 Fax +39-0382.814212

Date

01/12/2017

Responsible

Giuseppe Guastella