

Description

Halogen free, low smoke emission coaxial cable - 75 Ohm

Outdoor and Underground installation cable (Screening attenuation - Class A+)

**Data Sheet****34/145ZH**

Ø	3,40	14,50	14,66	15,26	19,80
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(LSZH)

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

Dca s2,d2,a1

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

EN50117-11-2

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

CATV

Indoor + Outdoor Installation

Construction data

Inner conductor of plain copper	(Cu)	Ø 3,40 ± 0,10	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 14,50 ± 0,15	mm
Copper tape longitudinally overlapped	(Cu/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of annealed copper wires	(Cu)		
Braid optical coverage (IEC 96-1)		70	%
Tracer Identifier	Year + Flag		
Diameter over Braid		Ø 15,26	mm
Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 19,80 ± 0,20	mm

Printed each meter by blue ink-jet :

CAVEL 3.4/14.5 ZH MADE IN ITALY 75 Ohm Euroclass Dca s2,d2,a1 EN50117-11-2 SA Class A+ CEI-UNEL 36762 C-4 (U0 = 400V) gggaan m

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	152,80	kg/km
Total weight of cable	404,54	kg/km
Minimum bending radius (single/repeated bending)	250	mm
Maximum cable pulling strength	1.200	N
Minimum installation temperature	-5	°C
Operating temperature	-25 / +80	°C

ITALIANA CONDUTTORI s.r.l.

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

Date

01/08/2023

Responsible

A. Bergaglio

Description

Halogen free, low smoke emission coaxial cable - 75 Ohm

Outdoor and Underground installation cable (Screening attenuation - Class A+)

**Data Sheet****34/145ZH****Electrical data**

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		53 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		2,10	Ohm/km
Outer conductor resistance		3,50	Ohm/km
Loop resistance		5,60	Ohm/km
Sheat Insulation voltage (spark test)		12	kV
Maximum current (Ieff)		34	A

Structural return loss (SRL)

5 - 470 MHz	>26 dB
470 - 1000 MHz	>23 dB
1000 - 2000 MHz	>20 dB
2000 - 3000 MHz	>18 dB

Screening Attenuation (SA)	SA-Class A+	Transfer Impedance (Zt)	Zt-Class A+
30 - 1000 MHz	>105 dB	5 - 30 MHz	< 2,5 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	0,50	690	5,80
10	0,70	1000	6,90
30	1,10	1750	9,40
50	1,40	2150	10,60
200	2,90	2400	11,50
300	3,60	3000	13,30
470	4,60		

Connectors

5/8MU-46	5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 84,0 mm x 31,0 mm
CS34	Stripper for Distribution Cables, just for Trunk 34/145, Tools -
FM-TL646	Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 76,0 mm x 31,0 mm
IEC14M-46	Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 84,0 mm x 31,0 mm
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**01/08/2023****Responsible****A. Bergaglio**