

## Description

Halogen free, low smoke emission coaxial cable - 75 Ohm

Underground installation cable (Screening Class A+)

Coaxial Cables

CAVEL®

since 1968

## Data Sheet

34/145ZH



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

EN 50117-2-3

## Reaction to Fire

EN50575

## Application

DOCSIS 3.1 (Data Over Coax System)

## 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)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of annealed copper wires	(Cu)		
Braid optical coverage (IEC 96-1)		61	%
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 EN50117-2-3 CEI-UNEL 36762 C-4 (U0 = 400V) gggaan m**

(gggaan=batch number m=meter marking)

## Physical data

Weight of copper conductors	153,52	kg/km
Total weight of cable	387,80	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

## Electrical data

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		53 ± 2	pF/m
Velocity Ratio		85 %	

## ITALIANA CONDUTTORI s.r.l.

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

## Date

20/09/2017

## Responsible

Alberto Scardovi

**Description**

Halogen free, low smoke emission coaxial cable - 75 Ohm

Underground installation cable (Screening Class A+)

Coaxial Cables

**CAVEL**<sup>®</sup>

since 1968

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

Inner conductor resistance	2,10	Ohm/km
Outer conductor resistance	2,60	Ohm/km
Loop resistance	4,70	Ohm/km
Sheat Insulation voltage (spark test)	12	kV
Maximum current (I <sub>eff</sub> )	34	A
Structural return loss (SRL)		
5 - 470 MHz	>25 dB	
470 - 1000 MHz	>24 dB	
1000 - 2000 MHz	>21 dB	
2000 - 3000 MHz	>20 dB	

Screening Attenuation (SA)	SA-Class A+	Transfer Impedance (Zt)	Zt-Class A+
30 - 1000 MHz	>95 dB	5 - 30 MHz	< 2,5 mΩ/m
1000 - 2000 MHz	>85 dB		
2000 - 3000 MHz	>80 dB		

## Attenuation (at 20°C )

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	0,50	862	6,40
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		

**ITALIANA CONDUTTORI s.r.l.**

Viale Zanotti 90 I - 27027 Gropello Cairoli

Tel +39-382.815150 Fax +39-0382.814212

Date

**20/09/2017**

Responsible

**Alberto Scardovi**

**Description**

Halogen free, low smoke emission coaxial cable - 75 Ohm

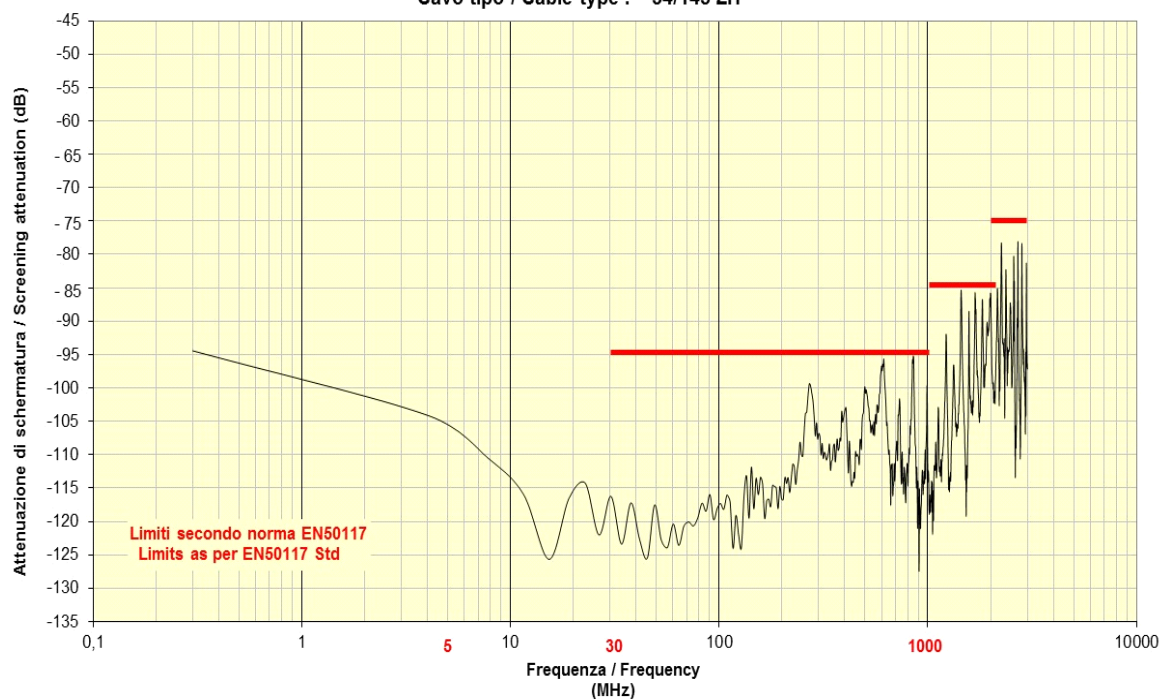
Underground installation cable (Screening Class A+)

Coaxial Cables

**CAVEL®**

since 1968

Data Sheet

**34/145ZH****Attenuazione di schermatura / Screening Attenuation****Cavo classe A+ / A+ Class Cable****Cavo tipo / Cable type : 34/145 ZH****Connectors**

- 3,5/12M-46** 3,5/12" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 84,0 mm x 30,0 mm
- 5/8MU-46** 5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 84,0 mm x 31,0 mm
- 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

**20/09/2017**

Responsible

**Alberto Scardovi**