

Description

Double Shielded Coaxial Cable, for transport and distribution - 75 Ohm
Outdoor and Underground installation cable (Screening attenuation - Class A+)

**Data Sheet****34/145FC**

Ø	3,40	14,50	14,66	15,26		19,80
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(Jelly2)	(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

EN50117-11-2

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

CATV

Exterior and Underground 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		
Water repellent sealing (sheath)	(Jelly2)		
Diameter over Braid		Ø 15,26	mm
Outer sheath of Polyethylene - black (RAL 9011) - with carbonblack	(PE)	Ø 19,80 ± 0,20	mm
Printed each meter by yellow ink-jet :			

CAVEL 3.4/14.5 FC MADE IN ITALY 75 Ohm Euroclass Fca EN50117-11-2 SA Class A+ CEI-UNEL 36762**C-4 (U0 = 400V) gggaa(n) m**

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	152,80	kg/km
Total weight of cable	331,00	kg/km
Minimum bending radius (single/repeated bending)	250	mm
Maximum cable pulling strength	1.200	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

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Date**01/08/2023****Responsible****A. Bergaglio**

Description				Data Sheet
Double Shielded Coaxial Cable, for transport and distribution - 75 Ohm Outdoor and Underground installation cable (Screening attenuation - Class A+)				34/145FC
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			
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