Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm

Underground installation cable (Screening Class A)

Data Sheet

DBF165



Ø	1,63	7,20	7,30	7,78	11,10	11,50
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(PE)	(PE+PP)

Standards

EN 50117-2-3

Construction data

Inner conductor of plain copper		(Cu)	Ø 1,63 ± 0,03	mm
Dielectric of physical foam polyethylene	65 %	(PEG)	Ø 7,20 ± 0,10	mm
Copper/Polyester tape longitudinally overlapped		(Cu/Pet)	27 x 20/23	mm/µm
Water repellent sealing (dielectric)		(Jelly1)		
Braid of annealed copper wires		(Cu)	16 x 9 x 0,120	mm
Lay length of braid			54	mm
Braid optical coverage (IEC 96-1)			64	%
Tracer Identifier		Year + Flag		
Diameter over Braid			Ø 7,78	mm
Inner sheath of Polyethylene green (RAL 6018) UV resistant		(PE)	11,10 ± 0,15	mm
Outer sheath of Polyethylene+Polypropylene blend - green (RAL 6018) - Polyethylene + Polypropylen		(PE+PP)	Ø 11,50 ± 0,15	mm

Printed each meter by blue ink-jet :

CAVEL DBF 165 Acc.to RoHS Dir. week ss/aa ITALIANA CONDUTTORI SRL - m

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

Physical data

Weight of copper conductors	39,99	kg/km
Total weight of cable	113,69	kg/km
Minimum bending radius (single/repetead bending)	100	mm
Maximum cable pulling strength	300	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

Electrical data

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		8,50	Ohm/km
Outer conductor resistance		9,50	Ohm/km
Loop resistance		18	Ohm/km
Sheat Insulation voltage (spark test)		8	kV
Maximum current (Ieff)		16	A

Structural return loss (SRL)

5 - 470 MHz	>30 dB
470 - 1000 MHz	>28 dB
1000 - 2000 MHz	>23 dB

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Date 27/02/2012

Responsible PierPaolo Piccinini

2000 - 3000 MHz	>20 dB

Screening Attenuation (SA)	SA-Class A
30 - 1000 MHz	>85 dB
1000 - 2000 MHz	>95 dB
2000 - 3000 MHz	>85 dB

Shield Transfer Impedance (Zt)	
5 - 30 MHz	< 5 mΩ/m

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,10	862	11,50
10	1,50	1000	12,40
30	1,90	1750	17,10
50	2,50	2150	19,20
200	5,30	2400	20,40
300	6,50	3000	23,30
470	8,30		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : DBF165 Data / Date : 02-10-2006

