

Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm

Double shielded cable (Screening Class A++)

**Data Sheet****RP163**

Ø	1,63	7,20	7,35	7,83		10,10
	(Cu)	(PEG)	(Al/Pet)	(CuSn)	(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

EN 50117-2-3

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,63 ± 0,03	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 7,20 ± 0,10	mm
Aluminum/Polyester tape longitudinally overlapped	(Al/Pet)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		78	%
Braid optical coverage (IEC 96-1) - External		75	%
Tracer Identifier	Year + Flag		
Water repellent sealing (sheath)	(Jelly2)		
Diameter over Braid		Ø 7,83	mm
Outer sheath of Polyethylene - black - with carbonblack	(PE)	Ø 10,10 ± 0,15	mm
Printed each meter by yellow ink-jet :			

CAVEL RP 163 MADE IN ITALY 75 Ohm Euroclass Fca EN50117-2-3 Class A++ CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaa(n) m

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

Physical data

Weight of copper conductors	39,54	kg/km
Total weight of cable	88,71	kg/km
Minimum bending radius (single/repeated 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		7,50	Ohm/km
Loop resistance		16	Ohm/km
Sheat Insulation voltage (spark test)		5	kV
Maximum current (Ieff)		16	A

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Date**24/05/2017****Responsible****Alberto Scardovi**

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**Data Sheet****RP163****Structural return loss (SRL)**

5 - 470 MHz	>30 dB
470 - 1000 MHz	>28 dB
1000 - 2000 MHz	>23 dB
2000 - 3000 MHz	>20 dB

Screening Attenuation (SA)

SA-Class A++

30 - 1000 MHz	>110 dB
1000 - 2000 MHz	>100 dB
2000 - 3000 MHz	>95 dB

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,10	862	12,30
10	1,50	1000	13,20
30	2,20	1750	17,90
50	2,80	2150	20,10
200	5,60	2400	21,00
300	6,90	3000	24,50
470	8,80		

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