

Description

Triple shielded coaxial cable for Broadband Distribution Networks 75 Ohm
Triple shielded cable (Screening Class A++)

**Data Sheet****TS27/115J**

Ø	2,70	11,50	11,72	12,32	12,44	15,30
	(Cu)	(PEG)	(Al/Pet/Al/Sur)	(CuSn)	(Al/Pet J-foil)	(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

Reaction to Fire

EN50575

Application

DOCSIS 3.1 (Data Over Coax System)

Construction data

Inner conductor of plain copper	(Cu)	Ø 2,70 ± 0,10	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 11,50 ± 0,15	mm
Aluminum/Polyester/Aluminum/Surlyne tape longitudinally overlapped and bonded to the dielectric	(Al/Pet/Al/Sur)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		64	%
Tracer Identifier	Year + Flag		
Aluminum/Polyester j-fold and longitudinally overlapped	(Al/Pet J-foil)	50+4 x 30/19	mm/µm
Diameter over Braid		Ø 12,44	mm
Outer sheath of Polyethylene - black with two green bands - with carbonblack	(PE)	Ø 15,30 ± 0,20	mm

Printed each meter by yellow ink-jet :

CAVEL TS 2.7/11.5 J MADE IN ITALY 75 Ohm Euroclass Fca EN50117-2-3 Class A++ CEI-UNEL 36762 C-4
(U0 = 400V) ULTRA HD / 4K gggaan m

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

Physical data

Weight of copper conductors	83,15	kg/km
Total weight of cable	188,30	kg/km
Minimum bending radius (single/repeated bending)	200	mm
Maximum cable pulling strength	800	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

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Date**12/05/2017****Responsible****PierPaolo Piccinini**

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Velocity Ratio	85 %	
Inner conductor resistance	3,40	Ohm/km
Outer conductor resistance	3,50	Ohm/km
Loop resistance	6,90	Ohm/km
Sheat Insulation voltage (spark test)	8	kV
Maximum current (I _{eff})	25	A
Structural return loss (SRL)		
5 - 470 MHz	>25 dB	
470 - 1000 MHz	>24 dB	
1000 - 2000 MHz	>23 dB	
2000 - 3000 MHz	>22 dB	

Screening Attenuation (SA)	SA-Class A++	Transfer Impedance (Zt)	Zt-Class A++
30 - 1000 MHz	>110 dB	5 - 30 MHz	< 1 mOhm/m
1000 - 2000 MHz	>105 dB		
2000 - 3000 MHz	>90 dB		

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	0,78	862	7,71
10	1,00	1000	8,38
30	1,34	1350	9,92
50	1,73	1750	11,52
200	3,53	2150	12,80
300	4,34	2400	13,60
470	5,53	3000	15,40
800	7,40		

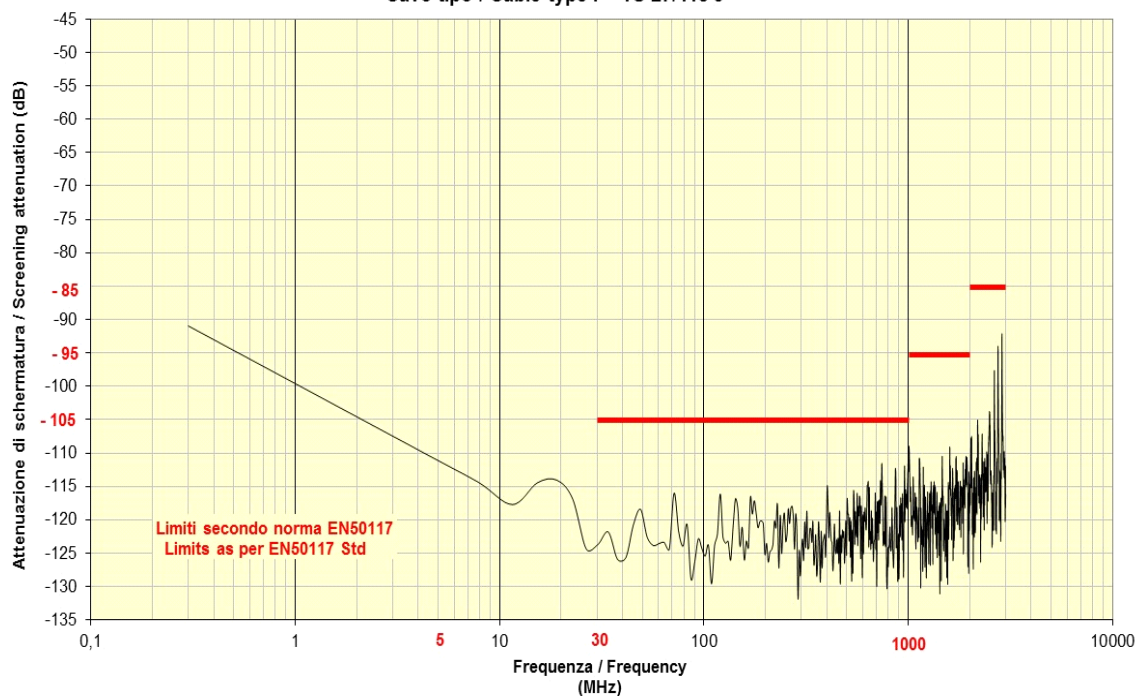
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**Data Sheet****TS27/115J****Attenuazione di schermatura / Screening Attenuation****Cavo classe A++ / A++ Class cable****Cavo tipo / Cable type : TS 27/115 J****Connectors**

3,5/12M-44	3,5/12" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
5/8MU-44	5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
FM-TL444	Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 76,0 mm x 31,0 mm
IEC14M-44	Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
SR21-44	Adapter, for 11/50FC - 27/115, for UNDERGROUND (Hardline) installation

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