

Description

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



Data Sheet

TS11J



Ø	1,63	7,20	7,37	7,85	7,97	10,30
	(Cu)	(PEG)	(Al/Pet/Al/Sur)	(CuSn)	(AL/Pet J-foil)	(PE)

Construction data

Inner conductor of plain copper	(Cu)	1,63 ± 0,03	mm
Dielectric of physical foam polyethylene	(PEG)	7,20 ± 0,10	mm
Aluminium/Polyester/Aluminium/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)		63	%
Tracer Identifier	Year + Flag		
Aluminium/Polyester j-fold and longitudinally overlapped	(Al/Pet J-foil)	32+3	x 30/19 µm
Diameter under Sheath		7,97	mm
Outer sheath of Polyethylene - black with two green bands - with carbonblack	(PE)	10,30 ± 0,20	mm

Printed each meter by yellow ink-jet :

**CAVEL TS 11 J MADE IN ITALY 75 Ohm EN50117-2-3 Class A++ CEI-UNEL 36762 C-4 (U0 =400V) * LTE
PROTECTION * ss/aa m**

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

Electrical data

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Factor		85	%
Inner conductor resistance		8,50	Ohm/km
Outer conductor resistance		7,50	Ohm/km
Loop resistance		16	Ohm/km
Insulation voltage of the sheath (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
2000 - 3000 MHz	>20 dB

Screening Attenuation (SA)

30 - 1000 MHz	>105 dB
1000 - 2000 MHz	>90 dB
2000 - 3000 MHz	>80 dB

Transfer impedance

5 - 30 MHz 0,1 mOhm/m

ITALIANA CONDUTTORI s.r.l.

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Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,10	862	11,90
10	1,50	1000	12,80
30	2,20	1750	17,90
50	2,80	2150	19,80
200	5,60	2400	21,00
300	6,90	3000	24,50
470	8,80		

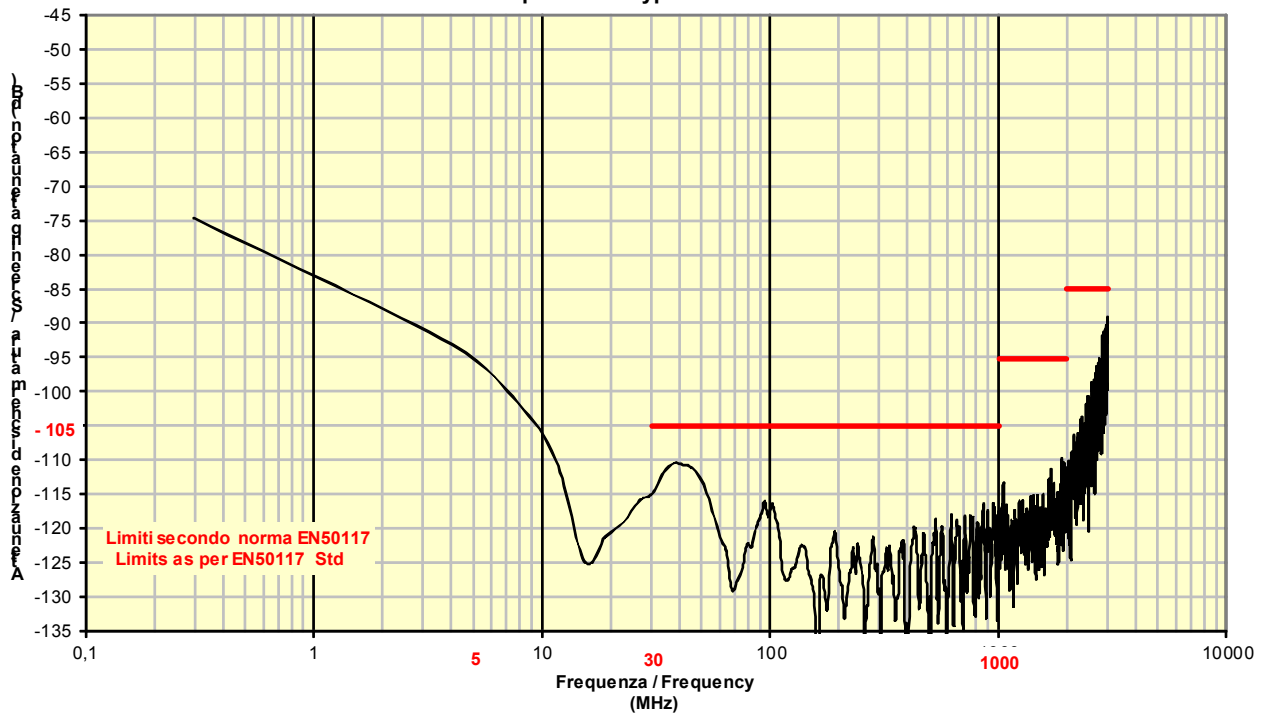
Mechanical data

Weight of copper conductors	34,50	kg/km	
Total weight of cable	86,70	kg/km	
Minimum bending radius (single/repetead bending)	100	mm	
Maximum cable pulling strength	300	N	
Fire Load	2.083	MJ/km	579 kWh/km

Standards

EN 50117-2-3

Attenuazione di schermatura / Screening Attenuation
Cavo classe A++ / A++ Class cable
Cavo tipo / Cable type : TS11J



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**Data Sheet****TS11J****Connector**

FA17/73	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 33,0 mm x 14,5 mm
F163	Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 35,0 mm x 14,0 mm
FC11QM	Series F Compression, Quick Mount, for outdoor installation
FM-32	Series F, male, for outdoor and underground installation, nitin-plated brass - 76,0 mm x 31,0 mm
IEC14M-32	Series IEC (no tool), male, for outdoor and underground installation, nitin-plated brass - 64,5 mm x 21,0 mm
NM-32	Serie N, male, for outdoor and underground installation, nitin-plated brass - 62,5 mm x 21,0 mm
5/8MU-32	Serie 5/8", male, for outdoor and underground installation, nitin-plated brass - 69,0 mm x 20,5 mm
3,5/12M-32	Serie 3,5/12", male, for outdoor and underground installation, nitin-plated brass - 65,5 mm x 24,5 mm

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