

## Description

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

Coaxial Cables

CAVEL®

since 1968

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)

## 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 1,63 ± 0,03	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 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	mm/µm
Diameter over Braid		Ø 7,97	mm
Outer sheath of Polyethylene - black with two green bands - with carbonblack	(PE)	Ø 10,30 ± 0,20	mm

Printed each meter by yellow ink-jet :

**CAVEL TS 11 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	34,57	kg/km
Total weight of cable	86,70	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

## ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli  
Tel +39-382.815150 Fax +39-0382.814212

Date

12/05/2017

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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)		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)	SA-Class A++	Shield Transfer Impedance (Zt)	Zt-Class A+
30 - 1000 MHz	>110 dB	5 - 30 MHz	< 2 mOhm/m
1000 - 2000 MHz	>110 dB		
2000 - 3000 MHz	> 90 dB		

**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		

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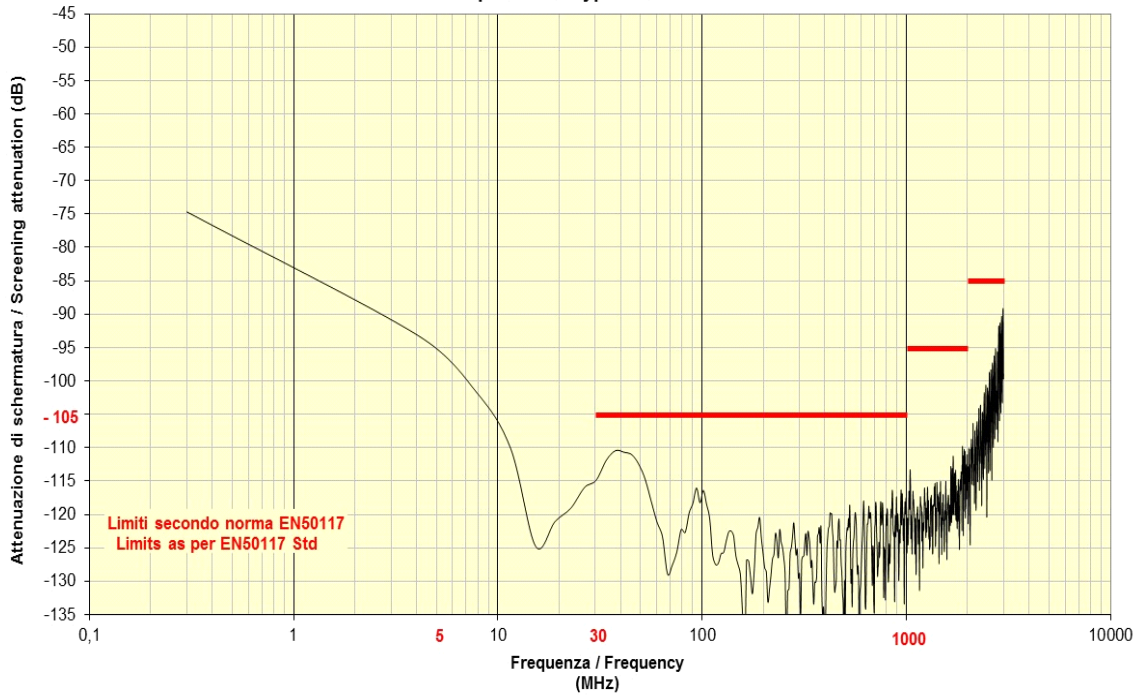


Data Sheet

**TS11J**

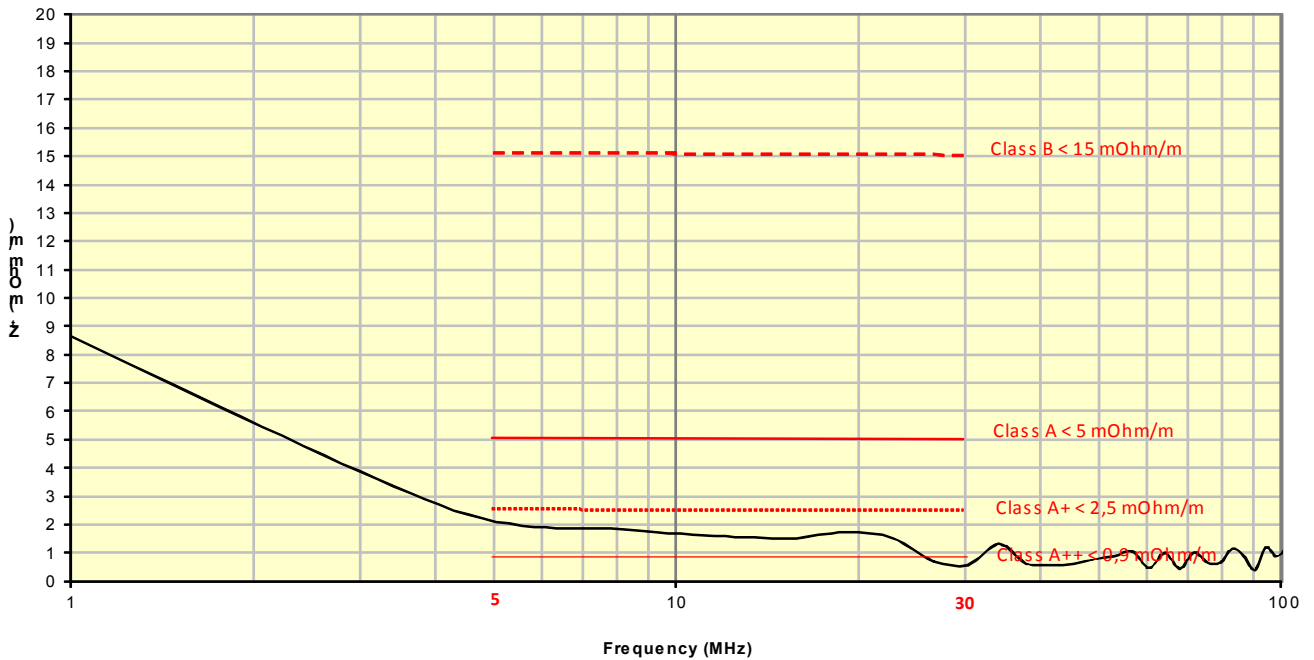
**Attenuazione di schermatura / Screening Attenuation**

**Cavo classe A++ / A++ Class cable**  
 Cavo tipo / Cable type : TS11J



**Transfer Impedance**

Cable type: TS11J



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**Data Sheet****TS11J****Connectors**

- 5/8MU-TL232** 5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 69,0 mm x 20,5 mm
- F163** Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
- FA17/73** Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 33,0 mm x 14,5 mm
- FC11QM** Series F Compression, Quick Mount, for OUTDOOR installation
- FM-TL232** Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 76,0 mm x 31,0 mm
- IEC14M-32** Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 64,5 mm x 21,0 mm
- NM-32** N Connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 62,5 mm x 21,0 mm
- SR01-32** Adapter, for 11/50 - RG11, for UNDERGROUND (Hardline) installation

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