

Description

Triple Shielded Coaxial Connection Cable for Wide Band - 75 Ohm

Triple shielded cable (Screening Attenuation - Class A++)



Data Sheet

TS80L



Ø	0,80	3,50	3,60	4,00	4,12	5,20
	(Cu)	(PEG)	(Al/Pet/Al)	(CuSn)	(Al/Pet)	(PVC)

Class CPR acc. to UE 305/2011 (DoP)

Eca

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

EN50117-9-2 CEI-UNEL 36762

Reaction to Fire

EN50575

Application

DOCSIS 3.1 (Data Over Coax System)

CATV

4K-UHD

Indoor Installation

Construction data

Inner conductor of plain copper	(Cu)	Ø 0,80 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 3,50 ± 0,10	mm
Aluminum/Polyester/Aluminum tape longitudinally overlapped	(Al/Pet/Al)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		65	%
External Aluminum/Polyester tape	(Al/Pet)		
Diameter under Sheath		Ø 4,12	mm
Outer sheath of Polyvinylchloride - white - lead-free	(PVC)	Ø 5,20 ± 0,10	mm

Printed each meter by blue ink-jet :

CAVEL TS 80 L MADE IN ITALY 75 Ohm Euroclass Eca EN50117-9-2 SA Class A++ CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaa(n) m

(gggaan=batch number m=meter marking)

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

20/07/2023

Responsible

A. Bergaglio

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Physical data

Weight of copper conductors	11,13	kg/km
Total weight of cable	28,44	kg/km
Minimum bending radius (single/repeated bending)	26/52	mm
Maximum cable pulling strength	90	N
Minimum installation temperature	-5	°C
Operating temperature	-20 / +70	°C

Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		35	Ohm/km
Outer conductor resistance		13,50	Ohm/km
Loop resistance		48,50	Ohm/km
Sheat Insulation voltage (spark test)		2,50	kV
Maximum current (Ieff)		4	A
Structural return loss (SRL)			
5 - 470 MHz	>33 dB		
470 - 1000 MHz	>27 dB		
1000 - 2000 MHz	>25 dB		
2000 - 3000 MHz	>23 dB		

Screening Attenuation (SA)	SA-Class A++	Transfer Impedance (Zt)	
30 - 1000 MHz	>110 dB	5 - 30 MHz	< 2,5 mΩ/m
1000 - 2000 MHz	>95 dB		
2000 - 3000 MHz	>90 dB		

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	2,10	690	21,40
10	2,90	1000	25,90
30	4,50	1750	35,10
50	5,70	2150	39,50
200	11,10	2400	42,20
300	13,70	3000	48,00
470	17,40		

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TS80L**Connectors**

C75-5L	Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
CCFM75GI	Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
CS00	Stripper for Drop Cables, Standard cables from 5 to 7 mm, Tools -
DR01	Adapter, Nut and Washer, for INDOOR installation
F81-HQ	Adapter, F Adapter FF, for INDOOR installation
FC5.0QMS	Series F Compression, Short Quick Mount, for OUTDOOR installation
FCEM5.0C	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass
FM-FF90	Adapter, FM - FF 90°, for INDOOR installation
LTE790	Indoor Fittings, Filter, for INDOOR installation
MM-F703	Adapter, F Adapter MM, for INDOOR installation
MM-FR703	Adapter, F Adapter MM, for INDOOR installation
SAT2VS	Indoor Fittings, F SAT 2-way Splitter, for INDOOR installation
TV2VS	Indoor Fittings, IEC TV 2-way Splitter, for INDOOR installation

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