

Description

Double Shielded Coaxial Cable, for transport and distribution - 75 Ohm
LSZH sheathed cable (Screening attenuation - Class A+)



Data Sheet

27/115ZH

Ø	2,70	11,50	11,60	12,20	15,00
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(LSZH)

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

Dca s2,d2,a1

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

EN50117-11-2

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

DOCSIS 3.1 (Data Over Coax System)

CATV

Indoor + Outdoor Installation

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
Copper/Polyester tape longitudinally overlapped	(Cu/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of annealed copper wires	(Cu)		
Braid optical coverage (IEC 96-1)		52	%
Tracer Identifier	Year + Flag		
Diameter over Braid		Ø 12,20	mm
Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 15,00 ± 0,20	mm

Printed each meter by yellow ink-jet :

CAVEL 2.7/11.5 ZH MADE IN ITALY 75 Ohm Euroclass Dca s2,d2,a1 EN50117-11-2 SA Class A+ CEI-UNEL 36762 C-4 (U0 = 400V) gggaa(n) m

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	83,87	kg/km
Total weight of cable	208,30	kg/km
Minimum bending radius (single/repeated bending)	200	mm
Maximum cable pulling strength	800	N
Minimum installation temperature	-5	°C
Operating temperature	-20 / +80	°C

Electrical data**ITALIANA CONDUTTORI s.r.l.**

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Date

04/10/2022

Responsible

A. Bergaglio

Description Double Shielded Coaxial Cable, for transport and distribution - 75 Ohm LSZH sheathed cable (Screening attenuation - Class A+)				Data Sheet 27/115ZH
Characteristic impedance	200 MHz	75 ± 2	Ohm	
Capacitance (@1kHz)		52 ± 2	pF/m	
Velocity Ratio		85 %		
Inner conductor resistance		3,40	Ohm/km	
Outer conductor resistance		5,80	Ohm/km	
Loop resistance		9,20	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 (Z _t)		
30 - 1000 MHz	>95 dB	5 - 30 MHz	< 4 mΩ/m	
1000 - 2000 MHz	>95 dB			
2000 - 3000 MHz	>75 dB			
Attenuation (at 20°C)				
Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]	
5	0,80	862	7,70	
10	1,10	1000	8,40	
30	1,30	1750	11,40	
50	1,70	2150	12,80	
200	3,40	2400	13,60	
300	4,20	3000	15,40	
470	5,50			
Connectors				
5/8MU-44	5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm			
CS27	Stripper for Distribution Cables, just for Trunk 27/115, Tools -			
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			
ITALIANA CONDUTTORI s.r.l. Viale Zanotti 90 I - 27027 Gropello Cairoli Tel +39-382.815150 Fax +39-0382.814212		Date 04/10/2022	Responsible A. Bergaglio	