

Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm
 Outdoor and Underground installation cable (Screening Attenuation - Class A)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

DG11CU

Ø	1,63	7,20	7,30	7,78		10,10
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(Jelly2)	(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

EN50117-11-2

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

Exterior and Underground Installation

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
Outer Copper/Polyester tape longitudinally overlapped	(Cu/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of annealed copper wires	(Cu)		
Braid optical coverage (IEC 96-1)		46	%
Tracer Identifier	Year + Flag		
Water repellent sealing (sheath)	(Jelly2)		
Diameter over Braid		Ø 7,78	mm
Outer sheath of Polyethylene - black (RAL 9011) - with carbonblack	(PE)	Ø 10,10 ± 0,15	mm

Printed each meter by yellow ink-jet :

CAVEL DG11CU MADE IN ITALY 75 Ohm Euroclass Fca EN50117-11-2 CEI-UNEL 36762 C-4 (U0 = 400V)
gggaan m

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

Physical data

Weight of copper conductors	34,50	kg/km
Total weight of cable	83,55	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

ITALIANA CONDUTTORI s.r.l.

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Date

07/09/2022

Responsible

A. Bergaglio

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DG11CU**Electrical data**

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		8,50	Ohm/km
Outer conductor resistance		11,60	Ohm/km
Loop resistance		20,10	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

30 - 1000 MHz	>85 dB
1000 - 2000 MHz	>75 dB
2000 - 3000 MHz	>65 dB

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,10	862	12,30
10	1,50	1000	13,20
30	2,20	1750	17,90
50	2,80	2150	20,10
200	5,60	2400	21,00
300	6,90	3000	24,50
470	8,80		

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DG11CU**Connectors**

3,5/12M-TL232	3,5/12" connector, male, for UNDERGROUND (Hardline) installation -
5/8MU-TL232	5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 69,0 mm x 20,5 mm
C75-5L	Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
CCFM75GI	Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
CS17	Stripper for Distribution Cables, male, Tools -
DR01	Adapter, Nut and Washer, for INDOOR installation
F163	Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
F81-HQ	Adapter, F Adapter FF, for INDOOR installation
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-FF90	Adapter, FM - FF 90°, for INDOOR 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
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
NM-32	N Connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 62,5 mm x 21,0 mm
SAT2VS	Indoor Fittings, F SAT 2-way Splitter, for INDOOR installation
SP-32	Adapter, Splice Connector, for UNDERGROUND (Hardline) installation
SR01-32	Adapter, for 11/50 - RG11, for UNDERGROUND (Hardline) installation

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