

Description

"siamese" drop coaxial cable - 75 Ohm
Cable for digital reception (Screening Class A)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

2XDG80



Construction data

Inner conductor of plain copper	(Cu)	0,80 ± 0,02 mm
Dielectric of physical foam polyethylene	(PEG)	3,50 ± 0,10 mm
Water repellent sealing (dielectric)	(Jelly1)	
Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)	
Braid of tinned copper wires	(CuSn)	
Braid optical coverage (IEC 96-1)		65 %

Attached Data Sheet

Sheath Colour

DG80

white (PVC)

Outer sheath of Polyvinylchloride - white (PVC) - lead-free (PVC) 11,00 x 5,00 ± 0,20 mm

Printed each meter by blue ink-jet :

CAVEL 2 x DG 80 MADE IN ITALY 75 Ohm EN50117-2-4 CEI-UNEL 36762 C-4 (U0 =400V) * LTE PROTECTION *
ss/aa m C C C C C

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

Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Factor		85 %	
Inner conductor resistance		35	Ohm/km
Outer conductor resistance		18,60	Ohm/km
Loop resistance		53,60	Ohm/km
Insulation voltage of the sheath (spark test)		2,50	kV
Maximum current (Ieff)		4	A

Structural return loss (SRL)

5 - 470 MHz	>30 dB
470 - 1000 MHz	>28 dB
1000 - 2000 MHz	>26 dB
2000 - 3000 MHz	>22 dB

Screening Attenuation (SA)

30 - 1000 MHz	>90 dB
1000 - 2000 MHz	>80 dB
2000 - 3000 MHz	>70 dB

Transfer impedance

5 - 30 MHz < 0,35 mOhm/m

ITALIANA CONDUTTORI s.r.l.

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

Date

01/07/2013

Responsible

PierPaolo Piccinini

Description

"siamese" drop coaxial cable - 75 Ohm
 Cable for digital reception (Screening Class A)



Data Sheet

2XDG80

Mechanical data

Weight of copper conductors	22,25	kg/km	
Total weight of cable	55,85	kg/km	
Minimum bending radius (single/repeated bending)	25/50	mm	
Maximum cable pulling strength	90	N	
Fire Load	784	MJ/km	218 kWh/km

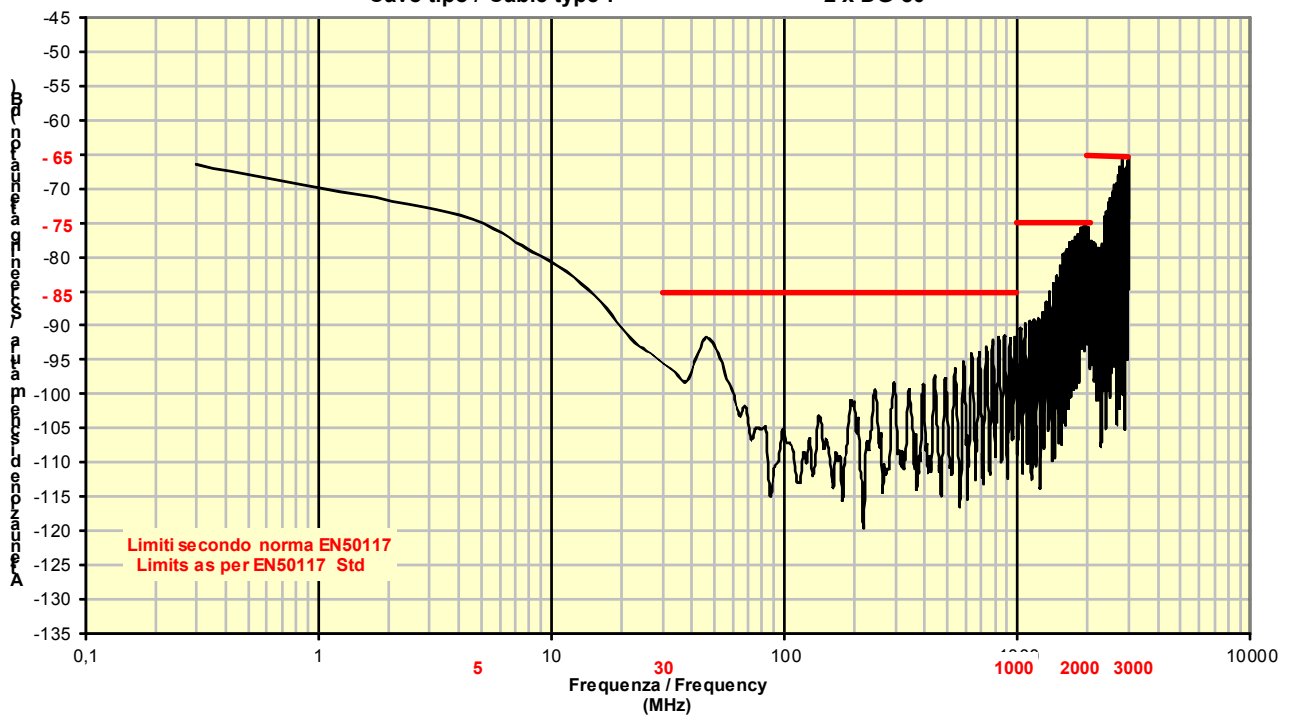
Standards

EN 50117-2-4

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : 2 x DG 80



Connector

FA501	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
F501	Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
BNCC501	Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm
FC501	Series F Compression, F Compression, for outdoor installation, nitin-plated brass - 30,0 mm x 12,0 mm
IECF905C	Series IEC (no tool), Ø 3,9 90° female, for indoor installation
IECM905C	Series IEC (no tool), Ø 3,9 90° male, for indoor installation
BNCC3.9C	Series BNC Compression, BNC Compression, for outdoor installation
FCPO3.9C	Series F Compression, Ø 3,9 Push-On, for outdoor installation, nitin-plated brass

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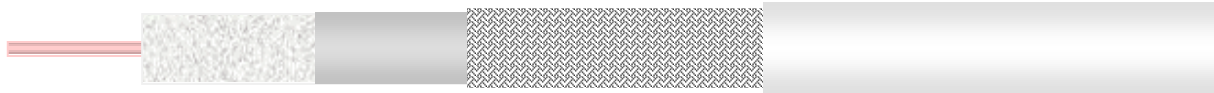
Description

Indoor drop coaxial cable for digital reception - 75 Ohm
 Cable for digital reception (Screening Class A)



Data Sheet

DG80
2XDG80



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

Construction data

Inner conductor of plain copper	(Cu)	0,80 ± 0,02 mm
Dielectric of physical foam polyethylene	(PEG)	3,50 ± 0,10 mm
Water repellent sealing (dielectric)	(Jelly1)	
Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)	
Braid of tinned copper wires	(CuSn)	
Braid optical coverage (IEC 96-1)		65 %
Diameter under Sheath		4,00 mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	5,00 ± 0,10 mm

Printed each meter by blue ink-jet :

CAVEL DG 80 MADE IN ITALY 75 Ohm EN50117-2-4 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 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Factor		85 %	
Inner conductor resistance		35	Ohm/km
Outer conductor resistance		18,60	Ohm/km
Loop resistance		53,60	Ohm/km
Insulation voltage of the sheath (spark test)		2,50	kV
Maximum current (Ieff)		4	A

Structural return loss (SRL)	
5 - 470 MHz	>30 dB
470 - 1000 MHz	>28 dB
1000 - 2000 MHz	>26 dB
2000 - 3000 MHz	>22 dB

Screening Attenuation (SA)		Transfer impedance
30 - 1000 MHz	>90 dB	5 - 30 MHz < 0,35 mOhm/m
1000 - 2000 MHz	>80 dB	
2000 - 3000 MHz	>70 dB	

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Data Sheet

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2XDG80

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	2,10	862	23,00
10	3,00	1000	24,90
30	4,40	1750	33,50
50	5,70	2150	37,40
200	11,00	2400	39,60
300	13,50	3000	44,80
470	16,80		

Mechanical data

Weight of copper conductors	11,13	kg/km	
Total weight of cable	25,73	kg/km	
Minimum bending radius (single/repetead bending)	25/50	mm	
Maximum cable pulling strength	90	N	
Fire Load	349	MJ/km	97 kWh/km

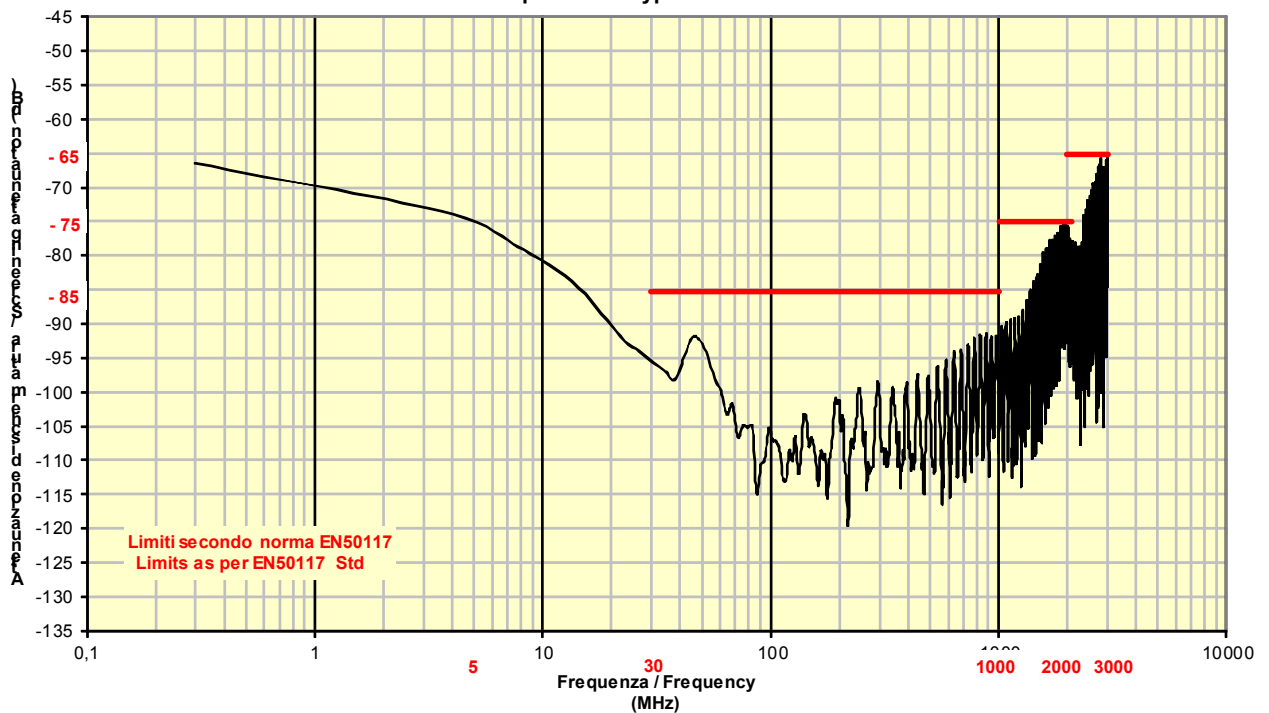
Standards

EN 50117-2-4

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : DG 80



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**Data Sheet****DG80**
2XDG80**Connector**

IECF905C	Series IEC (no tool), Ø 3,9 90° female, for indoor installation
IECM905C	Series IEC (no tool), Ø 3,9 90° male, for indoor installation
BNCC3.9C	Series BNC Compression, BNC Compression, for outdoor installation
FA501	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
F501	Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
BNCC501	Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm
FCPO3.9C	Series F Compression, Ø 3,9 Push-On, for outdoor installation, nitin-plated brass
FC501	Series F Compression, F Compression, for outdoor installation, nitin-plated brass - 30,0 mm x 12,0 mm

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