

CATV-Distribution-/Trunk-Cable Coax6 CT 15 A



Application	CATV cables are used in trunk lines of CATV and broadband networks between headend and subscriber termination point. They are suitable for direct buried and duct laying.
Standards	Screening Class A+ acc. to EN 50117-2-3(2004 Cenelec SC46XA), Screening Class A acc. to EN 50117-2-1(2004), EN 50117-2-2(2004), 50117-2-4(2004) and 50117-2-5(2004) further EN 50083-2/A1, EN 50117-1
Construction	
Inner conductor	bare copper wire, diameter 1.55 mm
Insulation	gas injected foam PE, natural colour, diameter 7.25 mm
Outer conductor	Cu-PET-Cu foil, longitudinal, under bare copper braid, optical coverage 60%, diameter 8.2 mm
Sheath	PE, PVC, or FRNC diameter 10.1 ± 0.3 mm
Sheath colour	black or white
Sheath marking	DRAKA MULTIMEDIA CABLE - GERMANY – COAX6 CT 15 A + meter marking + charge number

Electrical properties at 20 °C

Characteristic impedance	Ω	75 ± 2
Attenuation at 5 MHz (nominal)	dB/100m	0.9
50 MHz	dB/100m	2.8
100 MHz	dB/100m	3.9
200 MHz	dB/100m	5.7
400 MHz	dB/100m	8.3
800 MHz	dB/100m	12.2
862 MHz	dB/100m	12.7
950 MHz	dB/100m	13.4
1350 MHz	dB/100m	16.2
1750 MHz	dB/100m	18.9
2150 MHz	dB/100m	21.2
3000 MHz	dB/100m	25.9
Screening attenuation		
30-1000 MHz	dB	> 100
1000 MHz-2000 MHz	dB	> 95
2000 MHz-3000 MHz	dB	> 95
Transfer impedance		
5 MHz-30 MHz	mΩ/m	≤ 5
Velocity ratio	%	85
DC resistance		
Inner conductor	Ω/km	9.4
Outer conductor	Ω/km	6.2
Return loss		
5 - 30 MHz	dB	> 26
30 - 470 MHz	dB	> 26
470 - 1000 MHz	dB	> 24
1000 - 3000 MHz	dB	> 20
Mutual capacitance	pF/m	52
Electrical strength (1 Min.)		
Dielectric	kV dc	2
Sheath	kV dc	3.75

The right to alterations reserved

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Mechanical properties at 20 °C

Operating temperature range	°C	-40 to +70
Temperature range during storage	°C	-40 to +70
Temperature range during installation	°C	-5 to +60
Bending radius		
without load	mm	5 x Ø Cable
with load	mm	10 x Ø Cable
Fire propagation test (not for cables with the PE sheath) for cables with FRNC sheath		acc. to ICE 60332-1
Corrosivity		acc.to ICE 60754-2

Technical data

Product code	Cable type	Weight kg/km	Copper content	Standard-Delivery-length m	Drum Size OWD	Bending radius mm	Tensile force N	Storage
CK2686101	Coax6 CT 15 A PVC black	110	56	1000	760/360/420	75	300	inside
CK2686100	Coax6 CT 15 A PE black	102						outside
CK7686100	Coax6 CT 15 A FRNC white	102						inside
CK7686101	Coax6 CT 15 A FRNC black	102						inside

OWD (plywood drum)

Comments:

Coax6: Coax cable with **approx. 6 dB/100 m attenuation at 230 MHz**
CT: Copper-Trunk-cable
15: Inner conductor **1.5 mm** (the first two figures represent the inner conductor diameter)
A: **Advanced** (represents double screen, consists of Cu-PET-Cu-foil + copper braid with screening class A with at least 100 dB screening attenuation as well after 5 bendings)