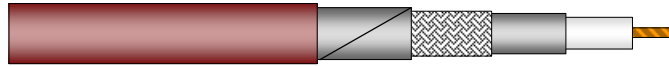




02Y(St)C(St)H 0.96L/2.6AF (C-50-3-1) and (CB50)

Coaxial according to CERN specification 461 REV. 6



Application

The radio-frequency cables described in this chapter are used in transmitter and receiver installations in radio communications as well as in the entire field of commercial radio-frequency technology and electronics.

Standards

DIN 47264, EN 50117-1, IEC 61196-1

Flame resistance

acc. to IEC 60332-3-24

Construction

Inner conductor	stranded copper wires, bare 7 x 0.32, diameter 0.96 ± 0.01 mm
Insulation	Foam-PE, diameter 2.6 ± 0.05
Outer conductor	Al-PETP-Al-foil + copper braid, tinned (93% optical coverage) + Al-PETP-Al-foil
Sheath	FRNC, diameter 4.8 ± 0.2
Colour	brown, RAL 8017
Printing CS2867500	DRAKA – manufacturing year C-50-3-1 meter marking and batch number
Printing CS2867501	DRAKA – manufacturing year CB50 meter marking and batch number

Mechanical properties

Minimum bending radius	without load	5 x outer diameter
	with load	10 x outer diameter
Temperature	during operation	-30° C to + 70° C
	during installation	-15° C to + 55° C
Corrosivity		IEC 60754-2

Electrical properties

at 20°C

DC resistance	Inner conductor	30.4 Ω /km
	Outer conductor	15.5 Ω /km
Mutual capacitance		84 pF/m
Velocity ratio		78 %
Characteristic impedance at 200 MHz		50 $\Omega \pm 2 \Omega$
Operating voltage		0.5 kV _{rms}
Test voltage	Inner/Outer conductor	1.3 kV _{rms}
Partial discharge test		0.55 kV _{rms}



02Y(St)C(St)H 0.96L/2.6AF (C-50-3-1) and (CB50)

Insulation resistance	≥ 5 GΩ*km
-----------------------	-----------

Electrical data

at 20°C

Frequency (MHz)	Attenuation (dB/100m)	Max. power rating (Watts) (ambient temperature 40°C and max. inner conductor temperature 100°C)	Return loss (dB) several peaks are allowed
	nominal	maximum	
1	1.6		Frequency (MHz)
10	3.7		
100	13.0		
200	17.0		
800	36		

All further requirements acc. to CERN Spec. 461 REV. 6

Technical data

Product code	Designation	Type	Brand name	Outer diameter mm	Weight kg/km	Standard delivery length m	Drum size *PWD	Gross weight kg	Copper content	Tensile force N
1002792 CS2867500	02Y(St)C (St)H	0.96L/2.6AF FRNC	C-50-3-1	4.8	38.1	1000	400/150/ 330	40.5	18.6	105
1002793 CS2867501	02Y(St)C (St)H	0.96L/2.6AF FRNC	CB50	4.8	38.1	1000	400/150/ 330	40.5	18.6	105

*PWD (Plywood drum)