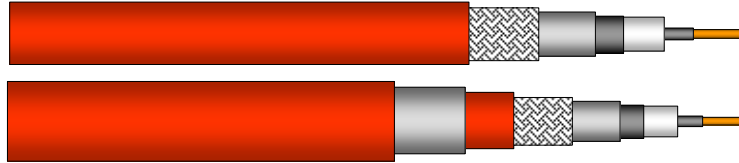


2Y(St)CH, 0.8/3.7 FRNC-B, 2Y(St)CH(St)H, 0.8/3.7 FRNC-C

Coaxial and Triaxial FRNC-High Voltage Low Power Cables acc.
 to CERN
 and DESY Specifications



Application

see product overview

Standards

acc. to DESY-Specification

Flame resistance

2Y(St)CH 0.8/3.7 acc. to IEC 60332-1
 2Y(St)CH(St)H 0.8/3.7 acc. to IEC 60332-3 CAT C

Construction 2Y(St)CH 0.8/3.7

Inner conductor	copper wire, bare, diameter 0.8 mm
Semiconductive layer	semiconductive PE, diameter 1.4 mm
Insulation	PE, diameter 3.7 mm
Semiconductive layer	Graphite, diameter 3.7 mm
Fire barrier wrapping	Al-PET-Al-foil
Outer conductor	copper braid, tinned
Sheath	FRNC, flame retardant, non corrosive Copolymer, diameter 6.6 mm ± 0.3 mm
Colour	red RAL 3002

2Y(St)CH, 0.8/3.7 FRNC-B, 2Y(St)CH(St)H, 0.8/3.7 FRNC-C

Construction 2Y(St)CH(St)H 0.8/3.7

Inner conductor	copper wire, bare, diameter 0.8 mm
Semiconductive layer	semiconductive PE, diameter 1.4 mm
Insulation	PE, diameter 3.7 mm
Semiconductive layer	Graphite, diameter 3.7 mm
Fire barrier wrapping	Al-PET-Al-foil
Outer conductor	copper braid, tinned
Sheath	FRNC, flame retardant, non corrosive Copolymer, diameter 6.6 mm mm
Colour	red RAL 3002
Fire barrier wrapping	Al-PET-Al-foil
Sheath	FRNC, flame retardant, non corrosive Copolymer, diameter 8.8 mm ± 0.3 mm
Colour	red RAL 3002

Mechanical properties

Minimum bending radius (during installation)	without load	5 x D (D= outer diameter)
	with load	10 x D (D= outer diameter)
Temperature range		- 40° C to + 85° C
		- 15° C to + 55° C
Corrosivity		acc. to IEC 60754-2

Electrical properties

at 20°C

DC resistance	Inner conductor	≤ 35.5 Ω/km
	Outer conductor	≤ 12.0 Ω/km
Mutual capacitance		112 pF/m
Operating voltage	conductor/1 st screen	20 kV _{DC}
Test voltage	conductor/1 st screen	60 kV _{DC}
Insulation resistance	conductor/1 st screen	≥ 100 GΩ*km

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
1002787	2Y(St)CH	0.8/3.7	-	6.6	60	1000	500/200 /360	65	23	140
1002788	2Y(St)CH(St)H	0.8/3.7	-	8.8	100	1000	600/200 /470	108	23	140

*PWD (Plywood drum)

[PRODUCT CODE TABLE]

**2Y(St)CH, 0.8/3.7 FRNC-B, 2Y(St)CH(St)H,
0.8/3.7 FRNC-C**

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