

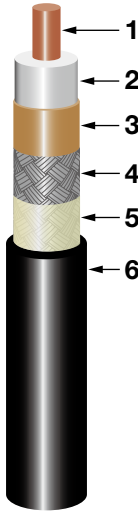
POLYENEX – Communication Series – COAXIAL50 CO-IREE-SX CX50

50Ω

Fire Protection Levels

EN45545-2
Int. HL3 / ext.HL3

DIN5510-2
1, 2, 3, 4



- Rated voltage
AC 300V
- Operating temp. range
-40~80°C

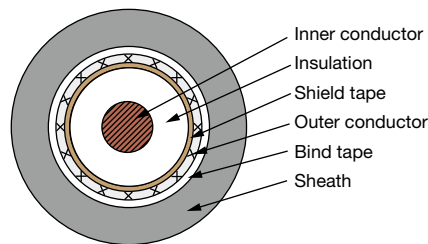
Properties

Flame resistance, Low smoke fume, Low toxicity

Application

On-board coaxial radio frequency cables up to 6GHz

Construction



1. INNER CONDUCTOR

Annealed copper wire

2. INSULATION

Cross-linked polyethylene (white)

3. SHILED TAPE

Metal tape shield

4. OUTER CONDUCTOR

Tin-coated annealed copper braid

5. BIND TAPE

Add appropriate tape if necessary

6. SHEATH

Cross-linked polyolefin (black)

Cable characteristics



Rated voltage
AC 300V



Operating temp. range
-40~80°C



Flame retardant
IEC60332-1-2



Fire retardant
IEC60332-3-24
IEC60332-3-25
EN50305



Smoke density
IEC61034-2
DIN5510-2



Gases toxicity
EN50305
DIN5510-2



Halogen free



Oil and fuel resistant
good



Acid and alkaline resistant
good



Ozone resistant
good



Cold resistant
-40°C
good



Minimum bending radius when installed
4D



Minimum bending radius when laying
4D

No. of cond. x Cross section (mm)	Inner conductor diameter (Nom.) (mm)	Insulation diameter (Nom.) (mm)	Max. Overall diameter (mm)	Max. conductor resistance at 20°C (Ω/km)	Capacitance 1.0kHz (pF/m)	Characteristic impedance TDR (Ω)	Time delay (nS/m)	Attenuation (dB/100m)			Approx. weight (kg/km)
								1500MHz	2500MHz	5800MHz	
1X1.78*	1.78	4.83	8.10	7.35	≤78.4	50±5	≤4.1	≤28.5	≤37.5	≤59.5	85
1X2.25*	2.3	7.1	11.0	4.5	≤85	50±5	≤4.8	2000MHz ≤36.0	5000MHz ≤68.0	6000MHz ≤75.0	100

* Conductor sizes in the range from 0.5mm² to 4.5mm² are available upon request