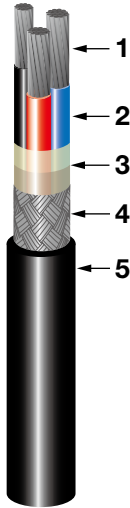


POLYENEX – Communication Series – RS485 CO-IREE-SX (X)

120Ω

Fire Protection Levels

EN45545-2
Int. HL3 / ext.HL3



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

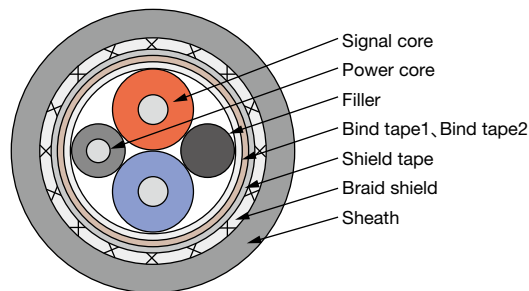
Properties

Flame resistance, Low smoke fume, Low toxicity

Application

On-board digital signal transmission cables

Construction



1. CONDUCTOR

Stranded with tin-coated annealed copper wire

2. INSULATION

Single core: cross-linked foamed polyethylene (blue,red)
Power core: cross-linked polyethylene (black)

3. BIND TAPE

Bind tape1: Polyethylene
Bind tape2: Polyimide

4. SCREEN

Metal tape shield and tin-coated annealed copper braid shield

5. 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
BS6853



Halogen free



Oil and fuel
resistant
good



Acid and alkaline
resistant
good



Ozone resistant
good



Cold resistant
good
-40°C



Minimum bending
radius when
installed
10D



Minimum bending
radius when
laying
10D

No. of cond. x Cross section (mm ²)	Inner conductor diameter (Nom.) (mm)	Insulation diameter (Nom.) (mm)	Overall diameter (mm)	Max. conductor resistance at 20°C (Ω/km)	Characteristic impedance 0.75-3.0MHz (Ω)	Transfer impedance 20MHz (mΩ/m)	Attenuation		Approx. weight (kg/km)
							1.0MHz (dB/100m)	3.0MHz (dB/100m)	
2X0.5 (Signal) 1X0.5SQ (Power)	0.9 0.9	2.35 1.45	6.8 ± 0.3	40.1	120±12	≤20	≤1.35	≤2.3	70