

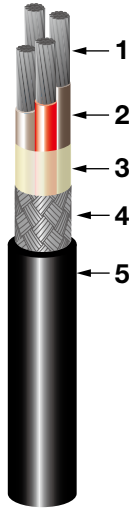
# POLYENEX – Communication Series – MVB CO-IREE-SB (X)

120Ω

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

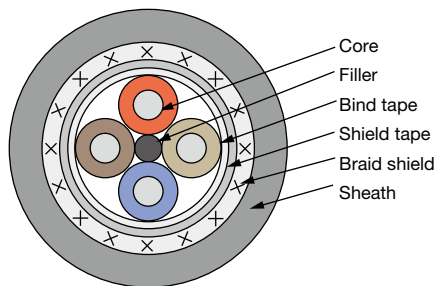
## Properties

Flame resistance, Low smoke fume, Low toxicity

## Application

On-board digital signal transmission cables

## Construction



### 1. CONDUCTOR

Stranded with tin-coated annealed copper wire

### 2. INSULATION

Cross-linked polyethylene (blue,brown,red,gray)

### 3. BIND TAPE

Add appropriate tape if necessary

### 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  
EN50305  
DIN5510-2



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  
4D



Minimum bending  
radius when  
laying  
4D

No. of cond. x Cross section (mm <sup>2</sup> )	Inner conductor diameter (Nom.) (mm)	Insulation diameter (Nom.) (mm)	Overall diameter (mm)	Max. conductor resistance at 20°C (Ω/km)	Capacitance 1kHz (pF/m)	Characteristic impedance 0.75-3.0MHz (Ω)	Transfer impedance 20MHz (mΩ/m)	Near end crosstalk 0.75-3.0MHz (dB)	Attenuation		Approx. weight (kg/km)
									1.5MHz (dB/100m)	3.0MHz (dB/100m)	
4X0.5	1.0	2.4	8.2±0.3	33.7	<46	120±12	<20	>45	<1.5	<2.2	100