

POLYENEX – Communication Series – CAT7 CO-IREE-SB C7E (X)

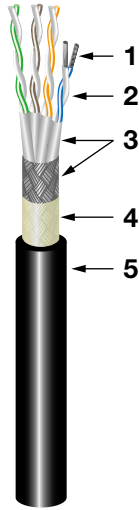
100Ω

Fire Protection Levels

EN45545-2
Int. HL3 / ext.HL3

DIN5510-2
1, 2, 3, 4

Standard
IEC61156-6



- Rated voltage
AC 30V
- Operating temp. range
-40~80°C

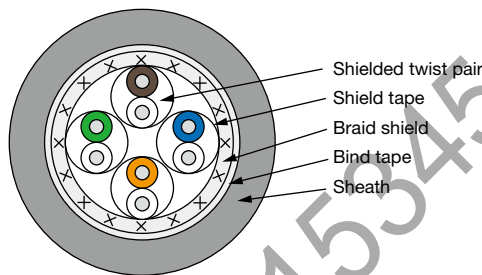
Properties

Flame resistance, Low smoke fume, Low toxicity

Application

On-board railway Ethernet cables up to 600MHz

Construction



1. INNER CONDUCTOR

Stranded with tin-coated annealed copper wire

2. INSULATION

Cross-linked polyethylene

(Pair No1:blue/white, Pair No.2:orange/white)
(Pair No3:green/white, Pair No.4:brown/white)

3. SCREEN

Metal tape shield and tin-coated annealed copper braid shield

4. BIND TAPE

Add appropriate tape if necessary

5. SHEATH

Cross-linked polyolefin (black)

Cable characteristics



No. of cond. x Cross section (AWG)	Inner conductor diameter (mm)	Insulation diameter (Nom.) (mm)	Overall diameter (mm)	Max. conductor resistance at 20°C (Ω/km)	Characteristic impedance 0.4-100MHz (Ω)	Attenuation			Approx. weight (kg/km)
						1.0MHz (dB/100m)	31.25MHz (dB/100m)	600MHz (dB/100m)	
4X2X24	0.62	1.4	8.8± 0.3	145	100±15	≤3.0	≤15.6	≤75.1	105

	Near end crosstalk			Far end crosstalk		
	31.25MHz (dB)	100MHz (dB)	600MHz (dB)	31.25MHz (dB/100m)	100MHz (dB/100m)	600MHz (dB/100m)
NEXT	78≤	72.4≤	60.7≤	64.1≤	54.0≤	38.4≤
PSNEXT	75≤	69.4≤	57.7≤	61.1≤	51.0≤	35.4≤