

POLYENEX[®] – Communication Series – CAT5e NH-CQEEE-SAB 22AWGX4C

100Ω

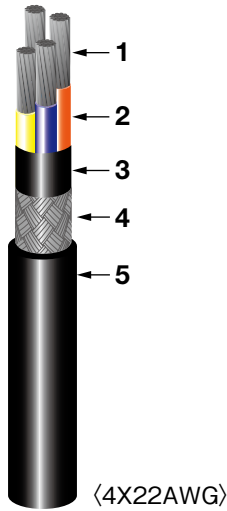
Fire Protection Levels

EN45545-2
Int. HL3 / ext.HL3

DIN5510-2
1, 2, 3, 4

NFF16-101
C/F1

Standard
IEC61156-6



<4X22AWG>

- Rated voltage
AC 60V
- Operating temp. range
-40~90°C

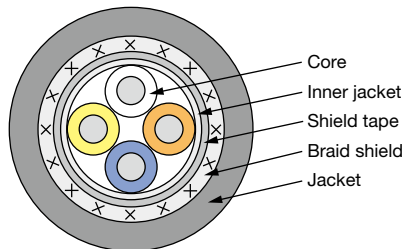
Properties

Halogen free, Superior fire safety, High chemical resistance, Flexible

Application

On-board railway Ethernet cable up to 100MHz for fixed installation

Construction



<4X22AWG>

- 1. CONDUCTOR**
Stranded with tin-coated annealed copper wire
- 2. INSULATION**
Cross-linked polyethylene (white, yellow, blue, orange)
- 3. INNER JACKET**
Cross-linked polyolefin (black)
- 4. SCREEN**
Metal tape shield and tin-coated annealed copper braid shield
- 5. JACKET**
Cross-linked polyolefin (black)

Cable characteristics



Rated voltage
AC 60V



Operating temp. range
-40~90°C



Flame retardant
IEC60332-1-2



Fire retardant
EN50305



Smoke density
IEC61034-2
DIN5510-2



Smoke index
NF X10-702-2
NF X70-100-1



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 for fixed
installation
6D

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)	Capacitance 1kHz (pF/m)	Characteristic impedance 1-100MHz (Ω)	Near end crosstalk			Attenuation			Approx. weight (kg/km)
							1.0MHz (dB/100m)	31.25MHz (dB/100m)	100MHz (dB/100m)	1.0MHz (dB/100m)	31.25MHz (dB/100m)	100MHz (dB/100m)	
4X22AWG	0.64	1.4	6.6± 0.2	145	≤56	100±10	≥65.3	≥42.9	≥35.3	≤3.2	≤17.1	≤32.0	65

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