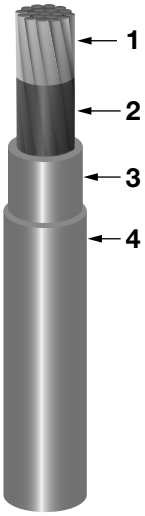
POLYENEX –EN compliant Series–

EN50382-2 3600V Sheathed

single core

Fire Protection Levels: EN45545-2 Int. HL3 / ext.HL3

Standard EN50382-2



- Rated voltage U_0/U
  AC 3.6/6.0kV
- Operating temp. range
  -40~120°C
  -40~150°C

Properties

Halogen free, Flame resistance, Low smoke fume, Low toxicity,
High chemical resistance, High mechanical properties, Heat/cold resistance,
Ozone resistance

Application

Single core cable that is applied to fixed internal/external wiring for rolling stock (Reference: EN50355:2003 EN50343:2003)

Construction

1. **CONDUCTOR**
   Stranded with tin-coated (120°C) or plain (150°C) annealed copper wire
2. **SEPARATING TAPE**
   Add appropriate tape if necessary
3. **INSULATION**
   Cross-linked silicone rubber (white or black)
   Type EI111 according to EN50382-1
4. **SHEATH**
   Cross-linked silicone rubber (black)
   Type EM106 or EM107 according to EN50382-1

Cable characteristics

Rated voltage Uo/U: AC 3.6/6.0 kV
Operating temp. range: -40~120ºC, -40~150ºC
Flame retardant: IEC60332-1-2
Fire retardant: IEC60332-3-24, IEC60332-3-25, EN50305
Smoke density: IEC61034-2
Gases toxicity: EN50305
Gases corrosivity: EN50267-2-2
Halogen free: EN50267-2-1, EN60684-2
Oil and fuel resistant: IEC60811-2-1
Acid and alkaline resistant: IEC60811-2-1
Ozone resistant: EN50305
Cold resistant: IEC60811-1-4, EN50305
Minimum bending radius when installed: (D≦12) 3D, (D>12) 4D
Minimum bending radius when laying: (D≦12) 4D, (D>12) 5D

Nominal cross section (mm^2)	Ave. insulation thickness (mm)	Ave. sheath thickness (mm)	Overall diameter (mm)		Max. conductor resistance at 20°C (Ω/km)	Approx.weight (kg/km)
			min	max		
4	2.6	1.4	10.4	12.2	5.09	180
6	2.6	1.4	10.9	12.8	3.39	210
10	2.6	1.4	11.8	13.8	1.95	265
16	2.6	1.4	12.8	15.0	1.24	335
25	2.9	1.4	14.7	17.2	0.795	465
35	2.9	1.4	15.9	18.6	0.565	585
50	2.9	1.5	17.5	20.5	0.393	750
70	2.9	1.5	19.2	22.4	0.277	985
95	2.9	1.6	20.8	24.3	0.210	1250
120	2.9	1.6	22.4	26.2	0.164	1500
150	2.9	1.7	24.1	28.2	0.132	1810
185	3.2	1.8	26.4	30.9	0.108	2190
240	3.4	1.9	29.4	34.4	0.0817	2840