

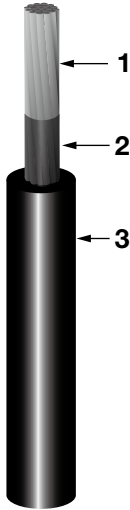
POLYENEX – EN compliant Series – EN50264-3-1 1800V

single
core

Fire Protection Levels

EN45545-2
Int. HL3 / ext.HL3

Standard
EN50264-3-1



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 annealed copper wire

2. SEPARATING TAPE

Add appropriate tape if necessary

3. INSULATION

Crosslinked polyolefin (Inner : white Outer : black)

Type EI107 or EI109 according to EN50264-1

- Rated voltage U_0/U
AC 1.8/3.0kV
- Operating temp. range
-40~120°C

Cable characteristics



Rated voltage
 U_0/U
AC 1.8/3.0 kV



Operating
temp. range
-40~120°C



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
($\varnothing \leq 12$) 3D
($\varnothing > 12$) 4D



Minimum bending
radius when
laying
($\varnothing \leq 12$) 4D
($\varnothing > 12$) 5D

Nominal cross section (mm ²)	Ave. insulation thickness (mm)	Overall diameter (mm)		Max. conductor resistance at 20°C (Ω/km)	Approx. weight (kg/km)
		min	max		
10	2.0	7.5	8.8	1.95	160
16	2.0	8.6	10.0	1.24	220
25	2.0	9.9	11.6	0.795	315
35	2.0	11.1	13.0	0.565	420
50	2.0	12.5	14.6	0.393	565
70	2.0	14.2	16.6	0.277	775
95	2.2	16.0	18.7	0.210	1040
120	2.2	17.6	20.6	0.164	1280
150	2.2	19.1	22.3	0.132	1550
185	2.4	20.9	24.4	0.108	1900
240	2.4	23.7	27.5	0.0817	2460
300	2.4	25.6	30.1	0.0654	2990