

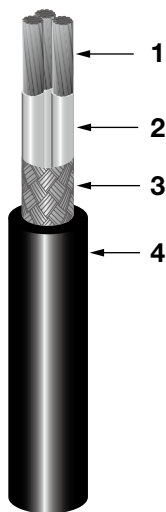
POLYENEX – EN compliant Series – EN50306-4 3P/3E 300V

multi core
screened

Fire Protection Levels

EN45545-2
Int. HL3 / ext.HL3

Standard
EN50306-4



- Rated voltage U_0/U
AC 300/500V
- Operating temp. range
-40~120°C

Properties

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

Application

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

Construction

1. CONDUCTOR

Stranded with tin-coated annealed copper wire

2. INSULATION

Engineering plastic (white)
Category M according to EN50306-1

3. SCREEN

Tin-coated annealed copper braid shield

4. SHEATH

Crosslinked polyolefin (black)
Category M according to EN50306-1

Cable characteristics



Rated voltage
 U_0/U
AC 300/500 kV



Operating
temp. range
-40~120°C



Flame
retardant
IEC60332-1-2



Fire retardant
IEC60332-3-24
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
IEC60811-2-1
EN50305



Cold resistant
IEC60811-1-4
EN50305



Minimum bending
radius when
installed
10D



Minimum bending
radius when
laying
10D

No. of cond. x Cross section (mm ²)	Min. insulation thickness (mm)	Approx. screen thickness (mm)	Min. sheath thickness (mm)		Overall diameter (mm)				Max. conductor resistance at 20°C (Ω/km)	Approx. weight (kg/km)	
			3P	3E	3P		3E			3P	3E
					min	max	min	max			
3X0.5	0.18	0.3	0.42	1.00	4.3	5.3	5.7	6.7	40.1	42	60
4X0.5	0.18	0.3	0.42	1.00	4.7	5.7	6.1	7.1	40.1	50	70
3X0.75	0.18	0.3	0.42	1.00	4.7	5.7	6.2	7.2	26.7	55	75
4X0.75	0.18	0.3	0.42	1.00	5.2	6.2	6.5	7.5	26.7	65	85
3X1.0	0.18	0.3	0.42	1.00	5.1	6.0	6.5	7.5	20.0	65	80
4X1.0	0.18	0.3	0.42	1.00	5.5	6.5	6.9	7.9	20.0	75	95
3X1.5	0.22	0.3	0.42	1.00	6.0	7.0	7.4	8.4	13.7	90	110
4X1.5	0.22	0.3	0.42	1.00	6.6	7.6	8.0	9.0	13.7	110	135
3X2.5	0.28	0.3	0.56	1.00	7.7	8.7	8.6	9.8	8.21	135	150
4X2.5	0.28	0.3	0.56	1.00	8.4	9.6	9.4	10.6	8.21	160	180