

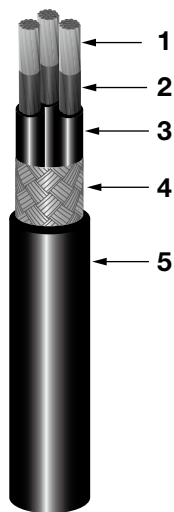
# POLYENEX – EN compliant Series – EN50264-3-2 600V

multi core  
screened

Fire Protection Levels

EN45545-2  
Int. HL3 / ext.HL3

Standard  
EN50264-3-2



- Rated voltage  $U_0/U$   
AC 0.6/1.0kV
- 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/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 (black)  
Type EI110 according to EN50264-1
- 4. SCREEN**  
Tin-coated annealed copper braid shield
- 5. SHEATH**  
Crosslinked polyolefin (black)  
Type EM102 or EM104 according to EN50264-1

## Cable characteristics



Rated voltage  
 $U_0/U$   
AC 0.6/1.0 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  
10D



Minimum bending radius when laying  
10D

No. of cond. x Cross section (mm <sup>2</sup> )	Ave. insulation thickness (mm)	Approx. screen thickness (mm)	Ave. sheath thickness (mm)	Overall diameter (mm)		Max. conductor resistance at 20°C (Ω/km)	Approx. weight (kg/km)
				min	max		
2x1.5	0.7	0.3	0.7	7.9	9.9	13.7	100
3x1.5	0.7	0.3	0.7	8.4	10.4	13.7	125
4x1.5	0.7	0.3	0.7	9.1	11.3	13.7	155
2x2.5	0.7	0.3	0.7	8.7	10.7	8.21	125
3x2.5	0.7	0.3	0.7	9.2	11.4	8.21	165
4x2.5	0.7	0.3	0.8	10.4	12.9	8.21	205
2x4	0.7	0.3	0.8	10.2	12.7	5.09	165
3x4	0.7	0.3	0.8	10.8	13.3	5.09	230
4x4	0.7	0.3	0.8	11.8	14.5	5.09	285
2x6	0.7	0.3	0.8	10.9	13.6	3.39	225
3x6	0.7	0.3	0.8	11.6	14.3	3.39	305
4x6	0.7	0.3	1.0	13.1	16.1	3.39	400