

RAIL-PC Power Cables

Zero Halogen, light weight cable for Low/Medium voltage applications (600V, 1800V, 3600V & Flexible). The construction is made with a TE Connectivity polymer blend. Developed to meet rail specification requirements, whilst maintaining the desirable features of flexible and non-wrinkling. Applications include driver desks, Control panels, wiring harness in inside/outside moving vehicles.

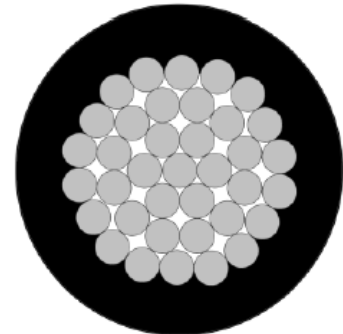


Features

- Electron beam crosslinked insulation
- EL 109 Insulation Material
- Meets common railway requirements
- Highly flexible and low bending radii
- Excellent resistance to high and low temperature
- Outstanding flame retardant
- Easy to strip
- Resistance to oil, fuel, ozone and weathering
- Resistance to corona effect
- Low smoke density
- Low toxicity

Characteristics

- Excellent resistance to high and low temperature
- Outstanding Flame retardant
- Halogen free
- Thin walled with excellent flexibility
- Resistance to Oil, fuel, ozone and weathering.
- Easy to strip
- Low smoke density
- Soldering iron resistant
- Electron Beam Cross Linked
- Low bend radius



Standards and Specifications

- EN45545-2 / R15/R16 – Hazard Level 3
- EN 50264-3-1
- DIN 5510-2

Mechanical Specifications

Conductor	IEC 60288 Class 5, Annealed Electro Tinned Copper
Number of Conductors	1
Cross Section	1.00mm ² – 400mm ²
Voltage Rating	TBC
Insulation	EBXL – EL 109
Temperature Range	-40°C to +90°C

600V Power Cable:

Part Description	Conductor			Finished Wire					
	Nominal		Ø Nom	Insulation Thickness Nom.	Maximum Resistance @ 20°C	Current Rating EN 50343 TC(max) = 90°C Tref = 45°C	Diameter (mm)		Approx. Weight
	Cross Sectional Area	Conductor Stranding No./Diam.					min	max	
	mm ²	mm	mm	mm	ohms/km				
RAIL-PC-15-1.00-0	1	32x0.20	1.3	0.6	20.0	20	2.4	2.8	15
RAIL-PC-15-1.50-0	1.5	29x0.25	1.5	0.7	13.7	25	2.8	3.3	20
RAIL-PC-15-2.50-0	2.5	47x0.25	2.0	0.7	8.21	33	3.2	3.8	30
RAIL-PC-15-4.0-0	4	52x0.30	2.4	0.7	5.09	46	3.8	4.4	45
RAIL-PC-15-6.0-0	6	78x0.30	3.0	0.7	3.39	60	4.2	5.0	65
RAIL-PC-15-10.0-0	10	77x0.40	4.1	0.7	1.95	85	5.1	5.9	105
RAIL-PC-15-16.0-0	16	126x0.40	5.1	0.7	1.24	110	6.1	7.2	160
RAIL-PC-15-25.0-0	25	190x0.40	6.3	0.9	0.795	150	7.8	9.1	250
RAIL-PC-15-35.0-0	35	226x0.40	7.6	0.9	0.565	190	9.0	10.6	330
RAIL-PC-15-50.0-0	50	378x0.40	9.9	1.0	0.393	240	10.6	12.4	495
RAIL-PC-15-70.0-0	70	350x0.50	11.7	1.1	0.277	300	12.5	14.6	665
RAIL-PC-15-95.0-0	95	456x0.50	13.5	1.1	0.210	360	13.9	16.3	885
RAIL-PC-15-120.0-0	120	570x0.50	15.2	1.2	0.164	425	15.7	18.4	1120
RAIL-PC-15-150.0-0	150	722x0.50	17.1	1.4	0.132	490	17.6	20.6	1400
RAIL-PC-15-185.0-0	185	874x0.50	18.6	1.6	0.108	560	19.6	22.9	1710
RAIL-PC-15-240.0-0	240	1147x0.50	21.3	1.7	0.0817	675	22.2	26.0	2200
RAIL-PC-15-300.0-0	300	1443x0.50	24.0	1.8	0.0654	775	24.6	28.8	2710
RAIL-PC-15-400.0-0	400	1952x0.50	27.6	2.0	0.0495	950	28.1	32.9	3610

Meets physical performance requirements of EN 50264-3-1

1800V Power Cable:

Part Description	Conductor			Finished Wire					
	Nominal		Ø Nom	Insulation Thickness Nom.	Maximum Resistance @ 20°C	Current Rating EN 50343 TC(max) = 90°C Tref = 45°C	Diameter (mm)		Approx. Weight
	Cross Sectional Area	Conductor Stranding No./Diam.					min	max	
	mm ²	mm	mm	mm	ohms/km				
RAIL-PC-35-1.50-0	1.5	29x0.25	1.5	2	13.7	25	5.3	6.2	55
RAIL-PC-35-2.50-0	2.5	47x0.25	2.0	2	8.21	33	5.7	6.7	65
RAIL-PC-35-4.0-0	4	52x0.30	2.4	2	5.09	46	6.2	7.3	85
RAIL-PC-35-6.0-0	6	78x0.30	3.0	2	3.39	60	6.7	7.8	105
RAIL-PC-35-10.0-0	10	77x0.40	4.1	2	1.95	85	7.5	8.8	155
RAIL-PC-35-16.0-0	16	126x0.40	5.1	2	1.24	110	8.6	10.0	215
RAIL-PC-35-25.0-0	25	190x0.40	6.3	2	0.795	150	9.9	11.6	300
RAIL-PC-35-35.0-0	35	266x0.40	7.6	2	0.565	190	11.1	13.0	400
RAIL-PC-35-50.0-0	50	378x0.40	9.7	2	0.393	240	12.5	14.6	550
RAIL-PC-35-70.0-0	70	350x0.50	11.7	2	0.277	300	14.2	16.6	740
RAIL-PC-35-95.0-0	95	456x0.50	13.5	2.2	0.210	360	16.0	18.7	980
RAIL-PC-35-120.0-0	120	570x0.50	15.2	2.2	0.164	425	17.6	20.6	1190
RAIL-PC-35-150.0-0	150	722x0.50	17.1	2.2	0.132	490	19.1	22.3	1480
RAIL-PC-35-185.0-0	185	874x0.50	18.6	2.4	0.108	560	20.9	24.4	1820
RAIL-PC-35-240.0-0	240	1147x0.50	21.3	2.4	0.0817	675	23.7	27.5	2300
RAIL-PC-35-300.0-0	300	1443x0.50	24.0	2.4	0.0654	775	25.6	30.1	2830
RAIL-PC-35-400.0-0	400	1952x0.50	27.6	2.6	0.0495	950	29.2	34.2	3700

Meets physical performance requirements of EN 50264-3-1