

# TE Connectivity

# CH-RAIL-PC POWER CABLE PRODUCTS

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#### Wire and Cable/// Technical Data Sheet

Document Number: WTDS-022

Issue 2



#### CH-RAIL-PC POWER CABLE PRODUCTS

#### Application/Use:

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 flexibile and non-wrinkling.

Applications include driver desks, Control panels, wiring harness in inside/outside moving vehicles.

Specifications relating to the selection and installation of cables are described in standards EN 50355 and EN 50343.

#### Features:

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

does not

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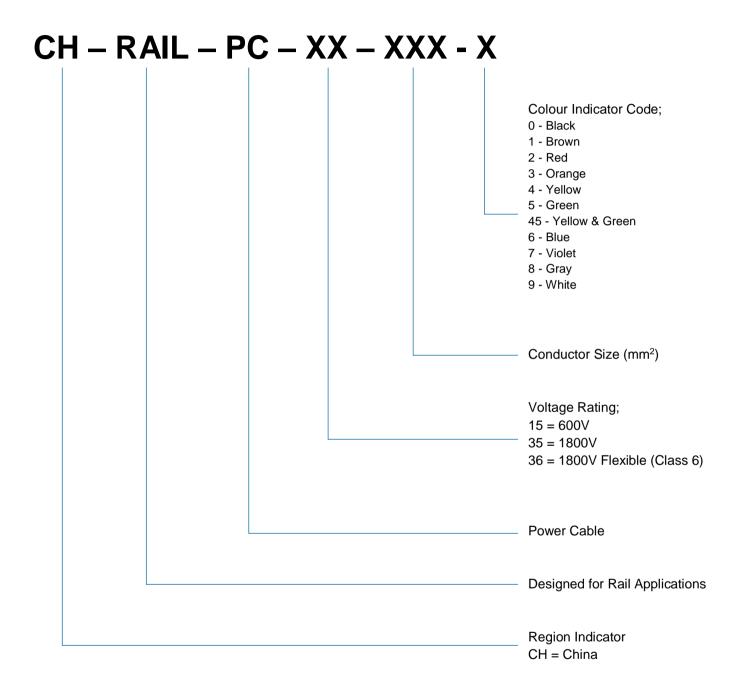
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#### CH-RAIL-PC POWER CABLE PRODUCTS

### **CH-RAIL-PC Part Description:**



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#### CH-RAIL-PC POWER CABLE PRODUCTS

#### CH-RAIL-PC-15:

#### 600V POWER CABLE

Conductor IEC 60288 Class 5 Voltage Rating 600/1000 V AC

Number of Conductors 1

Cross Section 1.00mm<sup>2</sup> – 400mm<sup>2</sup> Temperature Range -40°C to +90°C

Construction

Insulation EBXL – EL 109

Colour: As per customer request

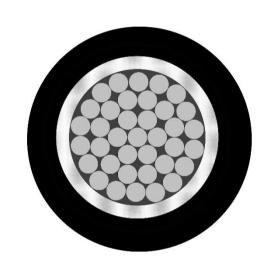
Conductor Finely Stranded Annealed Electro Tinned Copper

Class 5

#### Characteristics

o 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:
  - Single supported installation = 3 X Cable Diameter
  - Limited Flexing = 5 X Cable Diameter



#### Standards

Specification / Standard Category / Hazard Level

EN 45545-2 R15/R16 – Hazard Level 3

BS EN 50264-3-1 Meets physical performance requirements of **EN 50264-3-1** 

DIN 5510-2

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#### CH-RAIL-PC POWER CABLE PRODUCTS

#### CH-RAIL-PC-15:

#### **600V POWER CABLE**

		Conductor		Finished Wire					
	N	ominal	Diameter	Insulation	Maximum	Current Rating	Diameter	Approx.	
Part	Cross	Conductor	Nom.	Thickness	Resistance	EN 50343	(mm)	Weight	
Description	Sectional	Stranding		Min.	@	TC(max) = 90°C			
	Area	No./Diam.			20°C	Tref = 45°C			
	(mm²)	(mm)	(mm)	(mm)	(Ohms/km)	Max.	Nominal	(kg/km)	
CH-RAIL-PC-15-1.00-*	1	32 X 0.20	1.3	0.6	20	20	2.6 ± 0.2	13.9	
CH-RAIL-PC-15-1.50-*	1.5	29 X 0.25	1.5	0.7	13.7	25	$3.0 \pm 0.2$	18.5	
CH-RAIL-PC-15-2.50-*	2.5	47 X 0.25	2.0	0.7	8.21	33	$3.5 \pm 0.2$	27.8	
CH-RAIL-PC-15-4.0-*	4	52 X 0.30	2.4	0.7	5.09	46	$4.0 \pm 0.2$	41.7	
CH-RAIL-PC-15-6.0-*	6	78 X 0.30	3.0	0.7	3.39	60	$4.6 \pm 0.2$	60.2	
CH-RAIL-PC-15-10.0-*	10	77 X 0.40	4.1	0.7	1.95	85	$5.6 \pm 0.3$	97.2	
CH-RAIL-PC-15-16.0-*	16	126 X 0.40	5.1	0.7	1.24	110	$6.7 \pm 0.3$	152.8	
CH-RAIL-PC-15-25.0-*	25	190 X 0.40	6.3	0.9	0.795	150	$8.4 \pm 0.4$	236.1	
CH-RAIL-PC-15-35.0-*	35	266 X 0.40	7.6	0.9	0.565	190	$9.7 \pm 0.4$	324.1	

Meets physical performance requirements of EN 50264-3-1

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#### CH-RAIL-PC-15:

#### 600V POWER CABLE

	Conductor		Finished Wire					
No	ominal	Diameter	Insulation	Maximum	Current Rating	Diameter	Approx.	
Cross	Conductor	Nom.	Thickness	Resistance	EN 50343	(mm)	Weight	
Sectional	Stranding		Min.	@	90°C			
Area	No./Diam.			20°C	Tref = 45°C			
(mm²)	(mm)	(mm)	(mm)	(Ohms/km)	Max.	Nominal	(kg/km)	
50	378 X 0.40	9.9	1.0	0.393	240	11.9 ± 0.5	458.3	
70	350 X 0.50	11.7	1.1	0.277	300	14.1 ± 0.5	638.9	
95	456 X 0.50	13.5	1.1	0.210	360	$15.8 \pm 0.5$	847.2	
120	570 X 0.50	15.2	1.2	0.164	425	$17.9 \pm 0.5$	1069.4	
150	722 X 0.50	17.1	1.4	0.132	490	19.9 ± 0.7	1333.3	
185	874 X 0.50	18.6	1.6	0.108	560	22.0 ± 0.9	1648.1	
240	1147 X 0.50	21.3	1.7	0.0817	675	25.0 ± 1.0	2125.0	
300	1443 X 0.50	24.0	1.8	0.0654	775	27.6 ± 1.2	2638.9	
400	1952 X 0.50	27.6	2.0	0.0495	950	31.6 ± 1.3	3518.5	
	Cross Sectional Area (mm²) 50 70 95 120 150 185 240 300	Sectional Area         Stranding No./Diam.           (mm²)         (mm)           50         378 X 0.40           70         350 X 0.50           95         456 X 0.50           120         570 X 0.50           150         722 X 0.50           185         874 X 0.50           240         1147 X 0.50           300         1443 X 0.50           400         1952 X 0.50	Cross         Conductor         Nom.           Sectional         Stranding         No./Diam.           (mm²)         (mm)         (mm)           50         378 X 0.40         9.9           70         350 X 0.50         11.7           95         456 X 0.50         13.5           120         570 X 0.50         15.2           150         722 X 0.50         17.1           185         874 X 0.50         18.6           240         1147 X 0.50         21.3           300         1443 X 0.50         24.0           400         1952 X 0.50         27.6	Cross         Conductor         Nom.         Thickness           Sectional         Stranding         Min.           Area         No./Diam.         (mm)         (mm)           50         378 X 0.40         9.9         1.0           70         350 X 0.50         11.7         1.1           95         456 X 0.50         13.5         1.1           120         570 X 0.50         15.2         1.2           150         722 X 0.50         17.1         1.4           185         874 X 0.50         18.6         1.6           240         1147 X 0.50         21.3         1.7           300         1443 X 0.50         24.0         1.8           400         1952 X 0.50         27.6         2.0	Cross Sectional Stranding Area         Stranding No./Diam.         Nom.         Thickness Min.         Resistance @ 20°C           (mm²)         (mm)         (mm)         (mm)         (mm)         (Ohms/km)           50         378 X 0.40         9.9         1.0         0.393           70         350 X 0.50         11.7         1.1         0.277           95         456 X 0.50         13.5         1.1         0.210           120         570 X 0.50         15.2         1.2         0.164           150         722 X 0.50         17.1         1.4         0.132           185         874 X 0.50         18.6         1.6         0.108           240         1147 X 0.50         21.3         1.7         0.0817           300         1443 X 0.50         24.0         1.8         0.0654           400         1952 X 0.50         27.6         2.0         0.0495	Cross Sectional Sectional Area         Stranding No./Diam.         Nom. (mm)         Thickness Min.         Resistance @ 20°C         EN 50343 TC(max) = 90°C Tref = 45°C           (mm²)         (mm)         (mm)         (mm)         (ohms/km)         Max.           50         378 X 0.40         9.9         1.0         0.393         240           70         350 X 0.50         11.7         1.1         0.277         300           95         456 X 0.50         13.5         1.1         0.210         360           120         570 X 0.50         15.2         1.2         0.164         425           150         722 X 0.50         17.1         1.4         0.132         490           185         874 X 0.50         18.6         1.6         0.108         560           240         1147 X 0.50         21.3         1.7         0.0817         675           300         1443 X 0.50         24.0         1.8         0.0654         775           400         1952 X 0.50         27.6         2.0         0.0495         950	Cross Sectional Stranding Area         Stranding No./Diam.         Thickness Min.         Resistance 20°C         EN 50343 TC(max) = 90°C Tref = 45°C         (mm)         (mm)         (mm)         (mm)         (mm)         (mm)         (Moms/km)         Max.         Nominal           50         378 X 0.40         9.9         1.0         0.393         240         11.9 ± 0.5           70         350 X 0.50         11.7         1.1         0.277         300         14.1 ± 0.5           95         456 X 0.50         13.5         1.1         0.210         360         15.8 ± 0.5           120         570 X 0.50         15.2         1.2         0.164         425         17.9 ± 0.5           150         722 X 0.50         17.1         1.4         0.132         490         19.9 ± 0.7           185         874 X 0.50         18.6         1.6         0.108         560         22.0 ± 0.9           240         1147 X 0.50         21.3         1.7         0.0817         675         25.0 ± 1.0           300         1443 X 0.50         24.0         1.8         0.0654         775         27.6 ± 1.2           400         1952 X 0.50         27.6         2.0         0.0495         950	

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#### Wire and Cable/// Technical Data Sheet

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Issue 2



#### CH-RAIL-PC POWER CABLE PRODUCTS

#### CH-RAIL-PC-35:

#### 1800V POWER CABLE

Conductor IEC 60288 Class 5 Voltage Rating 1800/3000 V AC

Number of Conductors 1

Cross Section 1.50mm<sup>2</sup> – 400mm<sup>2</sup> Temperature Range -40°C to +90°C

Construction

Insulation EBXL – EL 109

Colour: As per customer request

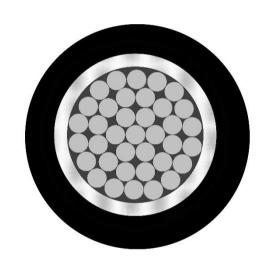
Conductor Finely Stranded Annealed Electro Tinned Copper

Class 5

#### Characteristics

o Excellent resistance to high and low temperature

- Outstanding Flame retardant
- o Halogen free
- Thin walled with excellent flexibility
- Resistance to oil, fuel,ozone and weathering.
- o Easy to strip
- Low smoke density
- Soldering iron resistant
- o Electron Beam Cross Linked.
- Low bend radius:
  - Single supported installation = 3 X Cable Diameter
  - Limited Flexing = 5 X Cable Diameter



#### Standards

Specification / Standard Category / Hazard Level

EN 45545-2 R15/R16 – Hazard Level 3

BS EN 50264-3-1 Meets physical performance requirements of **EN 50264-3-1** 

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#### CH-RAIL-PC POWER CABLE PRODUCTS

#### CH-RAIL-PC-35:

#### 1800V POWER CABLE

		Conductor		Finished Wire						
	N	ominal	Diameter	Insulation	Maximum	Current Rating	Diameter		Approx.	
Part	Cross	Conductor	Nom.	Thickness	Resistance	EN 50343 TC(max) =	(m	nm)	Weight	
Description	Sectional	Stranding		Min.	@	90°C				
	Area	No./Diam.			20°C	Tref = 45°C				
	(mm²)	(mm)	(mm)	(mm)	(Ohms/km)	Max.	Min.	Max.	(kg/km)	
CH-RAIL-PC-35-1.50-*	1.5	29 X 0.25	1.5	2	13.7	25	5.3	6.2	50.9	
CH-RAIL-PC-35-2.50-*	2.5	47 X 0.25	2.0	2	8.21	33	5.7	6.7	60.2	
CH-RAIL-PC-35-4.0-*	4	52 X 0.30	2.4	2	5.09	46	6.2	7.3	78.7	
CH-RAIL-PC-35-6.0-*	6	78 X 0.30	3.0	2	3.39	60	6.7	7.8	102	
CH-RAIL-PC-35-10.0-*	10	77 X 0.40	4.1	2	1.95	85	7.5	8.8	144	
CH-RAIL-PC-35-16.0-*	16	126 X 0.40	5.1	2	1.24	110	8.6	10.0	204	
CH-RAIL-PC-35-25.0-*	25	190 X 0.40	6.3	2	0.795	150	9.9	11.6	292	
CH-RAIL-PC-35-35.0-*	35	266 X 0.40	7.6	2	0.565	190	11.1	13.0	384	
Meets physical performance requirements	of EN 50264-3-1									

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#### CH-RAIL-PC-35:

#### 1800V POWER CABLE

		Conductor		Finished Wire					
	N	ominal	Diameter	Insulation	Maximum	Current Rating	Diameter		Approx.
Part	Cross	Conductor	Nom.	Thickness	Resistance	EN 50343 TC(max) =	(m	nm)	Weight
Description	Sectional	Stranding		Min.	@	90°C			
	Area	No./Diam.			20°C	Tref = 45°C			
	(mm²)	(mm)	(mm)	(mm)	(Ohms/km)	Max.	Min.	Max.	(kg/km)
CH-RAIL-PC-35-50.0-*	50	378 X 0.40	9.7	2	0.393	240	12.5	14.6	523
CH-RAIL-PC-35-70.0-*	70	350 X 0.50	11.7	2	0.277	300	14.2	16.6	699
CH-RAIL-PC-35-95.0-*	95	456 X 0.50	13.5	2.2	0.210	360	16.0	18.7	935
CH-RAIL-PC-35-120.0-*	120	570 X 0.50	15.2	2.2	0.164	425	17.6	20.6	1153
CH-RAIL-PC-35-150.0-*	150	722 X 0.50	17.1	2.2	0.132	490	19.1	22.3	1417
CH-RAIL-PC-35-185.0-*	185	874 X 0.50	18.6	2.4	0.108	560	20.9	24.4	1736
CH-RAIL-PC-35-240.0-*	240	1147 X 0.50	21.3	2.4	0.0817	675	23.7	27.5	2208
CH-RAIL-PC-35-300.0-*	300	1443 X 0.50	24.0	2.4	0.0654	775	25.6	30.1	2722
CH-RAIL-PC-35-400.0-*	400	1952 X 0.50	27.6	2.6	0.0495	950	29.2	34.2	3597

Meets physical performance requirements of EN 50264-3-1

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#### CH-RAIL-PC POWER CABLE PRODUCTS

#### CH-RAIL-PC-36:

#### FLEXIBLE 1800V POWER CABLE

Conductor IEC 60288 Class 6 Voltage Rating 1800/3000 V AC

Number of Conductors 1

Cross Section 1.50mm<sup>2</sup> – 400mm<sup>2</sup> Temperature Range -40°C to +90°C

Construction

Insulation EBXL – EL 109

Colour: As per customer request

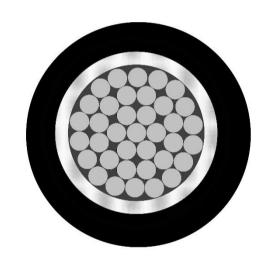
Conductor Finely Stranded Annealed Electro Tinned Copper

Class 6

#### Characteristics

o Excellent resistance to high and low temperature

- o Outstanding Flame retardant
- o Halogen free
- Thin walled with excellent flexibility
- o Resistance to oil, fuel,ozone and weathering.
- Easy to strip
- Low smoke density
- Soldering iron resistant
- o Electron Beam Cross Linked.
- Low bend radius:
  - Single supported installation = 3 X Cable Diameter
  - Limited Flexing = 5 X Cable Diameter



#### Standards

Specification / Standard Category / Hazard Level

EN 45545-2 R15/R16 – Hazard Level 3

BS EN 50264-3-1 Meets physical performance requirements of **EN 50264-3-1** 

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#### CH-RAIL-PC POWER CABLE PRODUCTS

#### RAIL-PC-36:

#### 1800V FLEXIBLE POWER CABLE

		Conductor		Finished Wire					
Part	Cross	Nominal Conductor	Diameter Nom.	Insulation Thickness	Maximum Resistance	Current Rating EN 50343	Diameter (mm)		Approx. Weight
Description	Sectional	Stranding		Min.	@	TC(max) = 90°C			
	Area				20°C	Tref = 45°C			
	(mm²)		(mm)	(mm)	(Ohms/km)	Max.	Min.	Max.	(kg/km)
CH-RAIL-PC-36-1.50-*	1.5	Stranded Class 6	1.6	2.0	13.7	25	5.1	6.1	50
CH-RAIL-PC-36-2.50-*	2.5	Stranded Class 6	2.1	2.0	8.2	33	5.5	6.7	64
CH-RAIL-PC-36-4.00-*	4	Stranded Class 6	2.8	2.0	5.09	46	6.2	7.4	85
CH-RAIL-PC-36-6.00-*	6	Stranded Class 6	3.4	2.0	3.39	60	6.7	8.1	109
CH-RAIL-PC-36-10.0-*	10	Stranded Class 6	4.5	2.0	1.95	85	7.7	9.3	160
CH-RAIL-PC-36-16.0-*	16	Stranded Class 6	5.6	2.0	1.24	110	8.8	10.4	226
CH-RAIL-PC-36-25.0-*	25	Stranded Class 6	6.9	2.0	0.80	150	9.9	11.9	320
CH-RAIL-PC-36-35.0-*	35	Stranded Class 6	8.2	2.0	0.565	190	11.1	13.3	431
CH-RAIL-PC-36-50.0-*	50	Stranded Class 6	10.0	2.0	0.393	240	12.8	15.2	597
Meets physical performance requirements	of EN 50264-3-1	•	•			•	•	1	

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#### CH-RAIL-PC POWER CABLE PRODUCTS

#### CH-RAIL-PC-36:

#### 1800V FLEXIBLE POWER

#### **CABLE**

		Conductor		Finished Wire						
	1	Nominal	Diameter	Insulation	Maximum	Current Rating	Diameter (mm)		Approx.	
Part	Cross	Conductor	Nom.	Thickness	Resistance	EN 50343			Weight	
Description	Sectional	Stranding		Min.	@	TC(max) = 90°C				
	Area				20°C	Tref = 45°C				
	(mm²)		(mm)	(mm)	(Ohms/km)	Max.	Min.	Max.	(kg/km)	
CH-RAIL-PC-36-70.0-*	70	Stranded Class 6	12.2	2.0	0.277	300	14.8	17.6	822	
CH-RAIL-PC-36-95.0-*	95	Stranded Class 6	14.1	2.2	0.210	360	16.9	20.1	1081	
CH-RAIL-PC-36-120.0-*	120	Stranded Class 6	15.9	2.2	0.164	425	18.6	22.0	1347	
CH-RAIL-PC-36-150.0-*	150	Stranded Class 6	17.0	2.2	0.132	490	19.6	23.2	1621	
CH-RAIL-PC-36-185.0-*	185	Stranded Class 6	19.6	2.4	0.108	560	22.4	26.4	2032	
CH-RAIL-PC-36-240.0-*	240	Stranded Class 6	22.6	2.4	0.082	675	25.1	29.7	2649	
CH-RAIL-PC-36-300.0-*	300	Stranded Class 6	25.0	2.4	0.0654	775	27.3	32.3	3193	
CH-RAIL-PC-36-300.0-*  Meets physical performance requirements		Stranded Class 6	25.0	2.4	0.0654	775	27.3	32.3	3193	

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#### CH-RAIL-PC POWER CABLE PRODUCTS

#### CH-RAIL-PC

#### PART NUMBERS

Part Description	Product Detail	TE Part Number
CH-RAIL-PC-15-1.00-0	Power Cable, 600 V, 1.00 mm <sup>2</sup> , Black	2364232-1
CH-RAIL-PC-15-1.50-0	Power Cable, 600 V, 1.50 mm <sup>2</sup> , Black	2364233-1
CH-RAIL-PC-15-2.50-0	Power Cable, 600 V, 2.50 mm <sup>2</sup> , Black	2364234-1
CH-RAIL-PC-15-4.00-0	Power Cable, 600 V, 4.00 mm <sup>2</sup> , Black	2364235-1
CH-RAIL-PC-15-6.00-0	Power Cable, 600 V, 6.00 mm <sup>2</sup> , Black	2364236-1
CH-RAIL-PC-15-16.0-0	Power Cable, 600 V, 16.0 mm <sup>2</sup> , Black	2364242-1
CH-RAIL-PC-15-25.0-0	Power Cable, 600 V, 25.0 mm <sup>2</sup> , Black	2364261-1
CH-RAIL-PC-15-35.0-0	Power Cable, 600 V, 35.0 mm <sup>2</sup> , Black	2364266-1
CH-RAIL-PC-15-2.50-45	Power Cable, 1800 V, 2.50 mm <sup>2</sup> , Green/Yellow	2364248-1
CH-RAIL-PC-15-4.00-45	Power Cable, 1800 V, 4.00 mm <sup>2</sup> , Green/Yellow	2364244-1
CH-RAIL-PC-15-6.00-45	Power Cable, 1800 V, 6.00 mm <sup>2</sup> , Green/Yellow	2364249-1
CH-RAIL-PC-15-16.0-45	Power Cable, 1800 V, 16.0 mm <sup>2</sup> , Green/Yellow	2364642-1

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