



TE Connectivity RL WIRE AND CABLE PRODUCTS

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TECHNICAL DATA SHEET

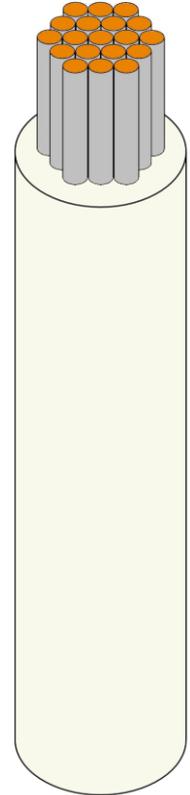
RL WIRE AND CABLE PRODUCTS

Application/Use:

Zero Halogen, light weight cable for signal, and Low voltage applications (600V). The construction is a single wall construction made with a TE Connectivity polymer blend.

Developed to meet Rail specification requirements, whilst maintaining the desirable features of small size, lightweight, flexible and non-wrinkling.

Typical applications include terminal boxes, ground connection and carriage wiring.



Features:

- Electron beam crosslinked insulation – EL 109
- EBXL - S2 Jacket material for multicore cables
- Thin Wall, Light Weight
- Meets common railway requirements
- Highly flexible and low bending radii

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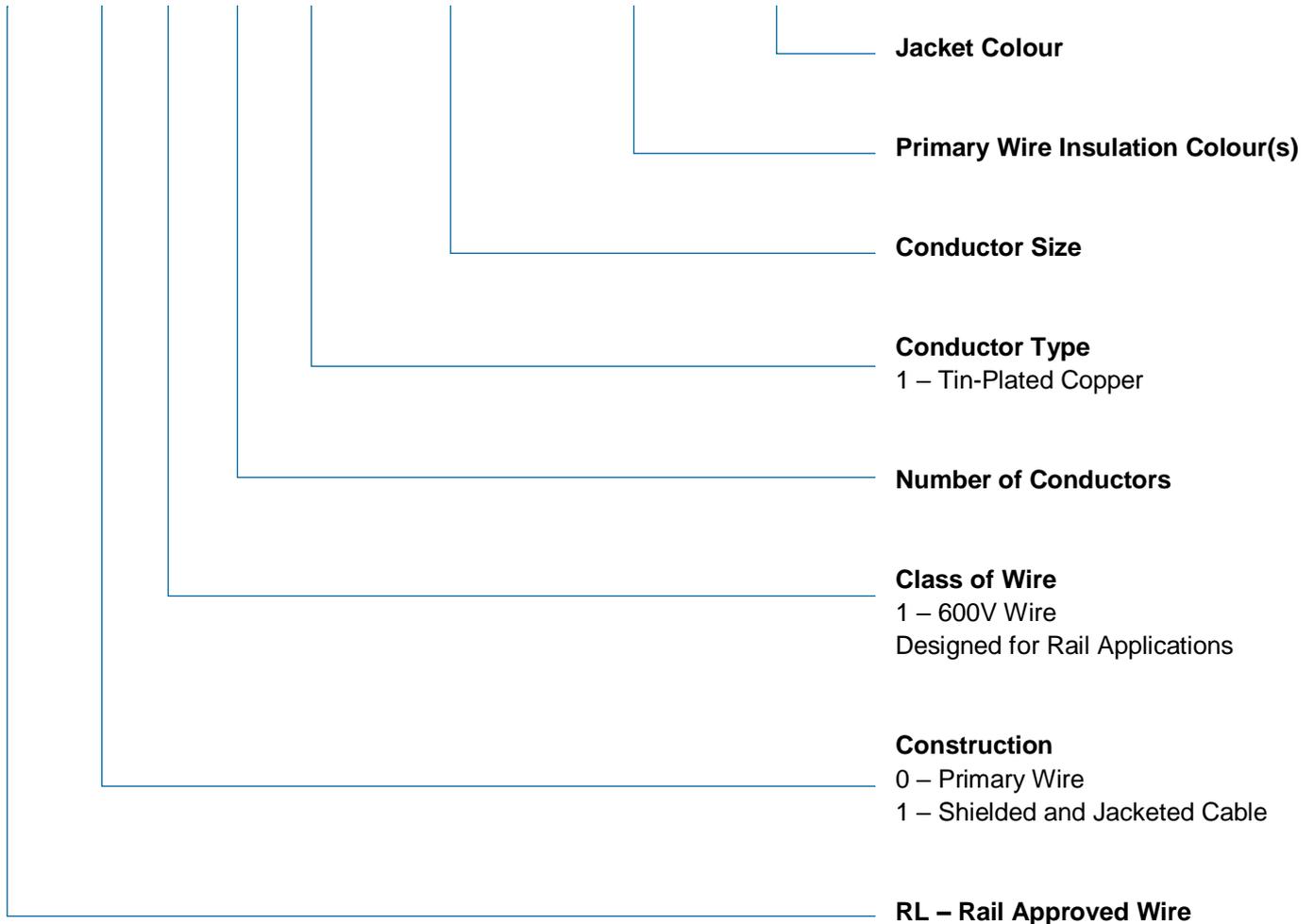


TECHNICAL DATA SHEET

RL WIRE AND CABLE PRODUCTS

RL Part Description:

RL X 1 X 1 – Size – X/X – X



Colour Indicator Code;

- | | | |
|------------|---------------------|------------|
| 0 - Black | 4 - Yellow | 7 - Violet |
| 1 - Brown | 5 - Green | 8 - Gray |
| 2 - Red | 45 - Yellow & Green | 9 - White |
| 3 - Orange | 6 - Blue | |

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RL0111:

SINGLE CORE WIRE

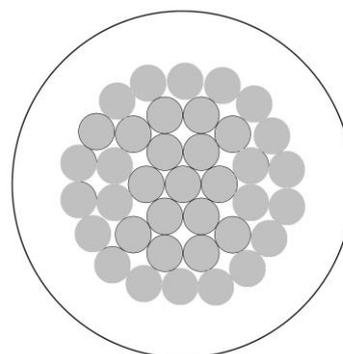
Conductor	Stranded Tinned Copper	Voltage Rating	600 V AC
Number of Conductors	1		
Cross Section	0.50mm ² – 4.00mm ²	Temperature Range	-40°C to +120°C

Construction

Insulation	EBXL – EL 109 Colour: As per customer request
Conductor	Finely Stranded Annealed Electro Tinned Copper

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.
- Resistance to corona effect



Standards

Specification / Standard	Category / Hazard Level
EN 45545-2	R15/R16 – Hazard Level 3
EN 50306-2*	Meets physical performance requirements of EN 50306-2 Identifier M
DIN 5510-2	

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RL WIRE AND CABLE PRODUCTS

RL0111:

SINGLE CORE WIRE

Part Description	Conductor			Finished Wire				
	Nominal Cross Sectional Area	Conductor Stranding No./Diam.	Diameter Min/Max	Insulation Thickness Min.	Maximum Resistance @ 20°C	Diameter (mm)		Approx. Weight
	(mm ²)	(mm)	(mm)	(mm)	(Ohms/km)	Min.	Max.	(kg/km)
⁽¹⁾ RL0111-0.50-*	0.50	19/0.18	0.80 - 0.95	0.18	40.10	1.15	1.45	6.0
⁽¹⁾ RL0111-0.75-*	0.75	37/0.16	1.00 - 1.15	0.18	26.70	1.35	1.65	8.0
⁽¹⁾ RL0111-1.00-*	1.00	37/0.18	1.10 - 1.30	0.18	20.00	1.40	1.80	10.0
RL0111-1.20-*	1.20	19/0.29	1.30 - 1.41	0.20	15.80	1.80	2.10	13.0
⁽¹⁾ RL0111-1.50-*	1.50	37/0.23	1.45 - 1.65	0.22	13.70	1.90	2.30	15.0
⁽¹⁾ RL0111-2.50-*	2.50	37/0.30	1.85 - 2.15	0.28	8.21	2.45	2.85	25.0
RL0111-4.00-*	4.00	56/0.30	2.40 - 2.57	0.28	4.89	2.90	3.25	42.0

⁽¹⁾ Meets physical performance requirements of EN 50306-2 Identifier M

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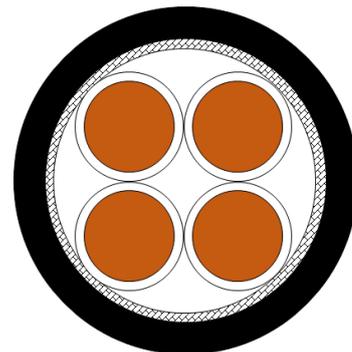
RL11*1:

MULTI-CORE SHIELDED CABLES

Conductor	IEC 60228 Class 5	Voltage Rating	600 V AC
Number of Conductors	1 to 20		
Cross Section	0.50mm ² – 4.00mm ²	Temperature Range	-40°C to +120°C

Construction

Cores	RL0111 Primary Wire
EMC Screen	Tinned copper braid
Jacket	EXBL – S2 Colour: Black



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.
- Resistance to corona effect.

Standards

Specification / Standard	Category / Hazard Level
EN 45545-2	R15/R16 – Hazard Level 3
EN 50306-3	*Meets physical performance requirements of EN 50306-3 Identifier MM
DIN 5510-2	

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TECHNICAL DATA SHEET

RL WIRE AND CABLE PRODUCTS

RL11*1:

MULTI-CORE SHIELDED CABLES

Part Number	Nominal		Maximum Resistance @ 20°C (Ohms/km)	Core Diameter Max. (mm)	Sheath Thickness (mm)		Outer Diameter (mm)		Approx. Cable Weight (kg/km)
	No. of Cores (No.)	CSA (mm ²)			Min.	Max.	Min.	Max.	
RL1111-0.50-*-*	1	0.50	40.1	1.45	0.20	2.3	2.9	15	
RL1121-0.50-*/*-*	2	0.50	40.1	1.45	0.20	3.5	4.4	32	
RL1131-0.50-*/*/*-*	3	0.50	40.1	1.45	0.20	3.7	4.7	38	
RL1141-0.50-*/*/*/*-*	4	0.50	40.1	1.45	0.20	4.0	5.2	46	
RL1111-0.75-*-*	1	0.75	26.7	1.65	0.20	2.5	3.1	19	
RL1121-0.75-*/*-*	2	0.75	26.7	1.65	0.20	3.9	4.8	41	
RL1131-0.75-*/*/*-*	3	0.75	26.7	1.65	0.20	4.0	5.2	49	
RL1141-0.75-*/*/*/*-*	4	0.75	26.7	1.65	0.20	4.5	5.7	59	
RL1111-1.00-*-*	1	1.00	20.0	1.80	0.20	2.7	3.3	21	
RL1121-1.00-*/*-*	2	1.00	20.0	1.80	0.20	4.2	5.3	46	
RL1131-1.00-*/*/*-*	3	1.00	20.0	1.80	0.20	4.5	5.7	56	
RL1141-1.00-*/*/*/*-*	4	1.00	20.0	1.80	0.20	5.0	6.2	70	
RL1111-1.20-*-*	1	1.20	15.8	2.10	0.20	2.9	3.5	25	
RL1121-1.20-*/*-*	2	1.20	15.8	2.10	0.20	4.5	5.5	55	
RL1131-1.20-*/*/*-*	3	1.20	15.8	2.10	0.20	4.7	5.8	68	
RL1141-1.20-*/*/*/*-*	4	1.20	15.8	2.10	0.20	5.5	6.5	85	
RL1111-1.50-*-*	1	1.50	13.7	2.30	0.20	3.1	3.7	28	
RL1121-1.50-*/*-*	2	1.50	13.7	2.30	0.20	5.1	6.2	65	
RL1131-1.50-*/*/*-*	3	1.50	13.7	2.30	0.20	5.4	6.6	80	
RL1141-1.50-*/*/*/*-*	4	1.50	13.7	2.30	0.20	6.0	7.2	100	

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TECHNICAL DATA SHEET

RL WIRE AND CABLE PRODUCTS

RL11*1:

MULTI-CORE SHIELDED CABLES

Part Number	Nominal		Maximum Resistance @ 20°C (Ohms/km)	Core Diameter Max. (mm)	Sheath Thickness Min. (mm)	Outer Diameter (mm)		Approx. Cable Weight (kg/km)
	No. of Cores (No.)	CSA (mm ²)				Min.	Max.	
RL1111-2.00-*-*	1	2.00	10.5	2.50	0.20	3.4	4.0	36
RL1121-2.00-*/*-*	2	2.00	10.5	2.50	0.20	5.6	6.4	72
RL1131-2.00-*/*/*-*	3	2.00	10.5	2.50	0.20	6.0	6.9	97
RL1141-2.00-*/*/*/*-*	4	2.00	10.5	2.50	0.20	7.0	8.0	130
RL1111-2.50-*-*	1	2.50	8.21	2.85	0.20	3.6	4.5	43
RL1121-2.50-*/*-*	2	2.50	8.21	2.85	0.20	6.4	7.5	95
RL1131-2.50-*/*/*-*	3	2.50	8.21	2.85	0.20	6.8	8.0	120
RL1141-2.50-*/*/*/*-*	4	2.50	8.21	2.85	0.20	7.5	8.7	150

Other constructions and sizes available upon request

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[RL1141-1.00-9/9/9/9-0](#) [RL1141-1.50-0/0/0/0-0](#) [RL1141-1.50-9/9/9/9-0](#) [RL1141-2.50-0/0/0/0-0](#) [RL1141-2.50-9/9/9/9-0](#)
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