

100RL RAIL

WIRE AND CABLE

100RL

RAIL SIGNAL WIRE

100RL is a rail-approved Zero Halogen, light weight wire for signal, and low voltage applications (300V). The construction is a dual wall combination of TE Connectivity polymer blends. 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

- Dual-wall wire insulation
- Thin Wall, Light Weight
- Meets common railway requirements
- Highly flexible and low bending radii
- Fully compliant with EN 50306-2:2002

Characteristics

- Excellent resistance to high and low temperature
- Outstanding flame retardant
- Halogen free
- 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

- EN45545-2 R15/R16 - Hazard Level 3
- EN50306-2 Hazard Level 3, Identifier MM

Product Performance Data

Temperature Range:

-55°C to 125°C

Number of Conductors: 1

Cross Section: 0.50mm² - 2.50mm²

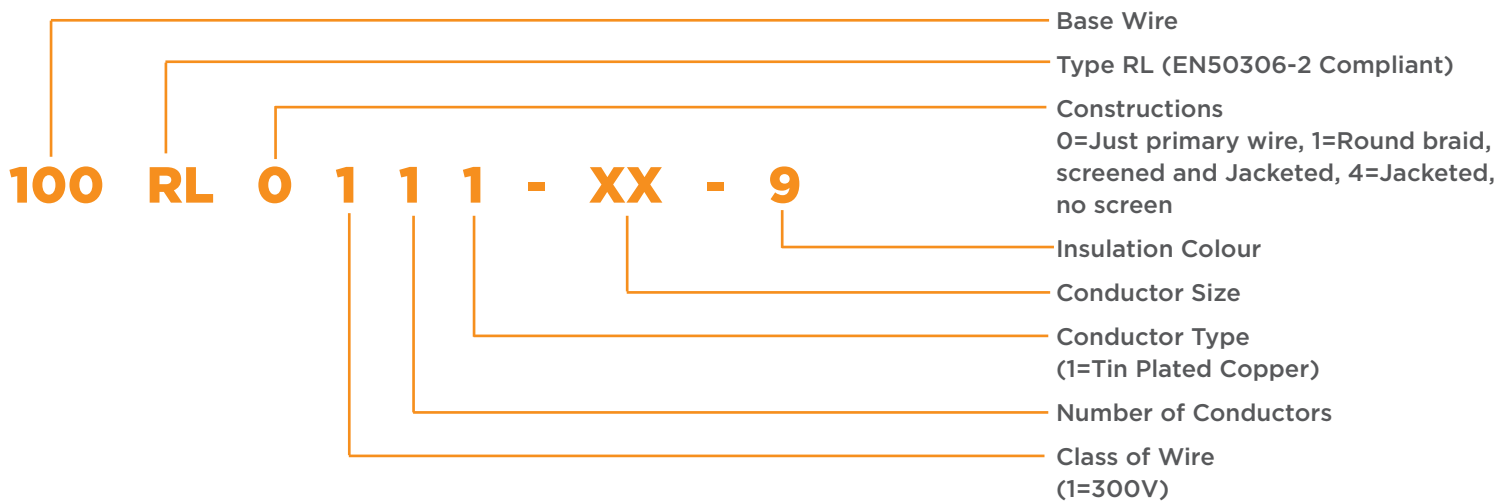
Voltage Rating: 300 V AC

Insulation:

100RL Dual-Wall Insulation
Colour: White

Conductor:

Stranded, tin-plated copper



100RL - EN 50306-2: Single Core Wire

Part Description	Conductor			Finished Wire			
	Conductor Stranding No./Diam. (mm)	Diameter (mm)		Insulation Thickness (mm)	Resistance at 20°C (ohms/km)	Diameter (mm)	Finished Weight (kg/km)
		Min.	Max.				
100RL0111-0.50-9	19/0.18	0.82	0.9	0.20	40.10	1.40	6.60
100RL0111-0.75-9	19/0.23	1.01	1.15	0.20	26.70	1.60	8.90
100RL0111-1.00-9	19/0.25	1.17	1.26	0.20	20.00	1.75	10.70
100RL0111-1.50-9	37/0.23	1.46	1.58	0.20	13.70	2.08	16.00
100RL0111-2.50-9	37/0.29	1.85	2.01	0.25	8.21	2.55	25.70

Fully compliant with testing, marking and colour requirements of EN50306-2

100RL

RAIL MULTICORE CABLE

100RL is a rail-approved Zero Halogen, light weight wire for signal, and low voltage applications (300V). 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

- Dual-wall wire insulation
- EM104/S2 Jacket material for multicore cables
- Meets common railway requirements
- Highly flexible and low bending radii
- Fully compliant with EN 45545-2 EN 50306-2:2002

Characteristics

- Flame retardant
- Halogen free
- Thin wall
- Lightweight
- Highly flexible
- Low strip force
- Low toxicity
- Low smoke
- High crush resistance

Standards

- EN45545-2 R15/R16 - Hazard Level 3
- EN50306-2 Hazard Level 3, Identifier MM
- EN 50306-1 S2 Sheath
- EN 50264-1 EM 204 Sheath

Product Performance Data

Temperature Range:

-40°C to 125°C

Number of Conductors: 1 to 4

Conductor:

IEC 60228 Class 5

Cross Section: 0.50mm² - 2.50mm²

Voltage Rating:

300 V AC

Cores:

100RL0111-XX-9

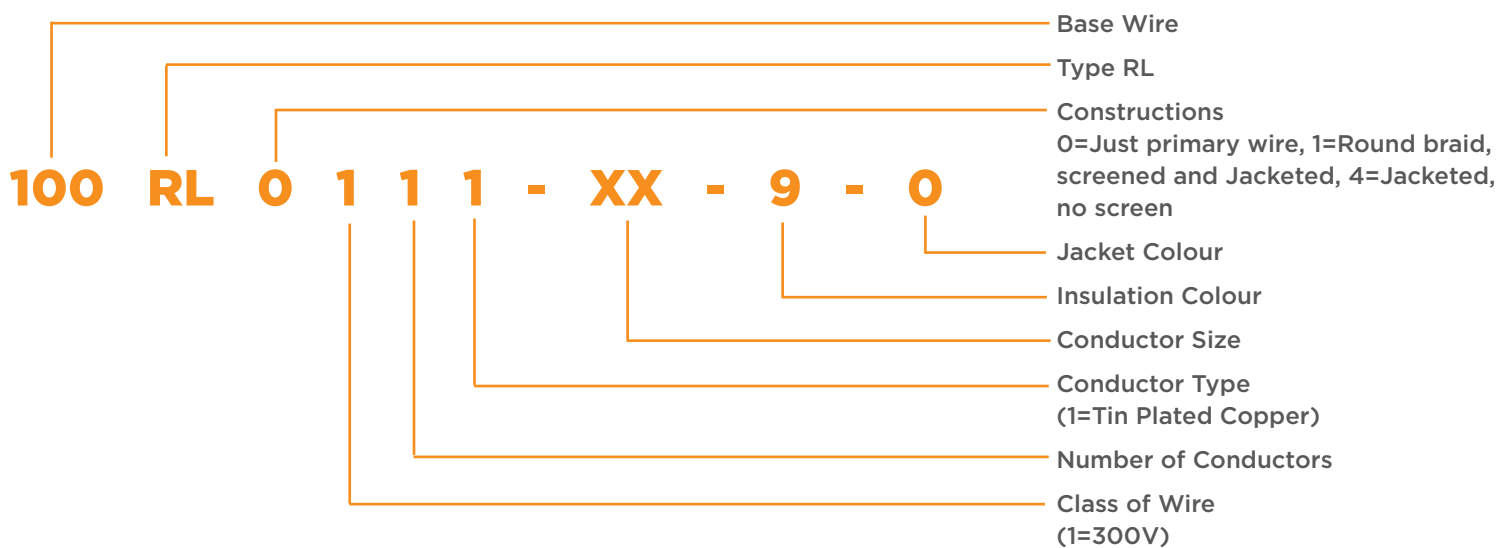
EMC Screen:

Tin-plated copper braid

Jacket:

S2 / EM104

Colour: Black



100RL - EN 50306-2: Multi-core Shielded Cables

Part Description	Conductor			Finished Wire			
	Construction (Number of cores x Conductor Size)		Shield Size (mm)	Sheath Thickness (mm)	Resistance at 20°C (ohms/ km)	Overall Diameter (mm)	Finished Weight (kg/km)
	Cores	Size	Nominal	Min.	Max.	Nominal	Max.
100RL1111-0.50-*-*	1	0.50	0.10	0.22	40.10	2.46	14.5
100RL1121-0.50-*-*	2	0.50	0.13	0.22	40.10	3.99	30.3
100RL1131-0.50-*-*	3	0.50	0.13	0.22	40.10	4.23	39.5
100RL1141-0.50-*-*	4	0.50	0.13	0.22	40.10	4.58	48.7
100RL1111-0.75-*-*	1	0.75	0.10	0.22	26.70	2.67	17.9
100RL1121-0.75-*-*	2	0.75	0.13	0.22	26.70	4.44	37.4
100RL1131-0.75-*-*	3	0.75	0.13	0.22	26.70	4.70	49.3
100RL1141-0.75-*-*	4	0.75	0.13	0.22	26.70	5.12	61.3
100RL1111-1.00-*-*	1	1.00	0.10	0.22	20.00	2.79	20.5
100RL1121-1.00-*-*	2	1.00	0.13	0.22	20.00	4.65	42.2
100RL1131-1.00-*-*	3	1.00	0.13	0.22	20.00	4.93	56.2
100RL1141-1.00-*-*	4	1.00	0.13	0.22	20.00	5.36	70.3
100RL1111-1.50-*-*	1	1.50	0.13	0.22	13.70	3.23	29.3
100RL1121-1.50-*-*	2	1.50	0.13	0.22	13.70	5.30	56.6
100RL1131-1.50-*-*	3	1.50	0.13	0.22	13.70	5.65	76.5
100RL1141-1.50-*-*	4	1.50	0.13	0.22	13.70	6.17	96.7
100RL1111-2.50-*-*	1	2.50	0.13	0.22	8.21	3.72	41.2
100RL1121-2.50-*-*	2	2.50	0.13	0.22	8.21	6.29	81.4
100RL1131-2.50-*-*	3	2.50	0.13	0.22	8.21	6.70	111
100RL1141-2.50-*-*	4	2.50	0.13	0.35	8.21	7.70	152

LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit www.te.com/industrial to chat with a Product Information Specialist.

TECHNICAL SUPPORT

te.com/support-center

Australia	+86 400-820-6015	Hungary	+36 1-2892040	Portugal	+34 91-6630420
Austria	+43 1-9056-0	India	+86 400-820-6015	Russia	+74 95-790-2200
Belgium	+31 73-6246999	Ireland	+1 800-882-391	Slovakia	+42 02-720-11102
Brazil	+55 11-2103-6000	Italy	+39 011-4012111	Slovenia	+38 615-602-132
China	+86 400-820-6015	Japan	+044-844-8052	South Africa	+97 150-457-0806
Czech Republic	+42 02-7201-1103	Korea	+02-3415-4607	Spain	+34 932-910-330
Denmark	+46 8-5072-5000	Latvia	+37 2-6778-673	Sweden	+46 8-5072-5000
Estonia	+37 2677-8673	Lithuania	+37 037426900	Switzerland	+41 71-447-0447
Finland	+46 8-5072-5000	Luxembourg	+31 73-6246999	Taiwan	+86 400-820-6015
France	+33 1-34-20-8686	Netherlands	+31 73-6246999	Turkey	+90 212-282-6053
Germany	+49 6151-607-1999	New Zealand	+86 400-820-6015	United Kingdom	+44 800-267666
Greece	+97 1-4-347-0226	Norway	+46 8-5072-5000	USA	800-522-6752
Holland	+31 73-6246999	Poland	+48 22-4576750		

te.com

TE Connectivity, TE Connectivity (logo), Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2018 All Rights Reserved.

1-1773950-5 CC 0318

PRODUCT CATALOGUE

TE Connectivity
Data Solutions