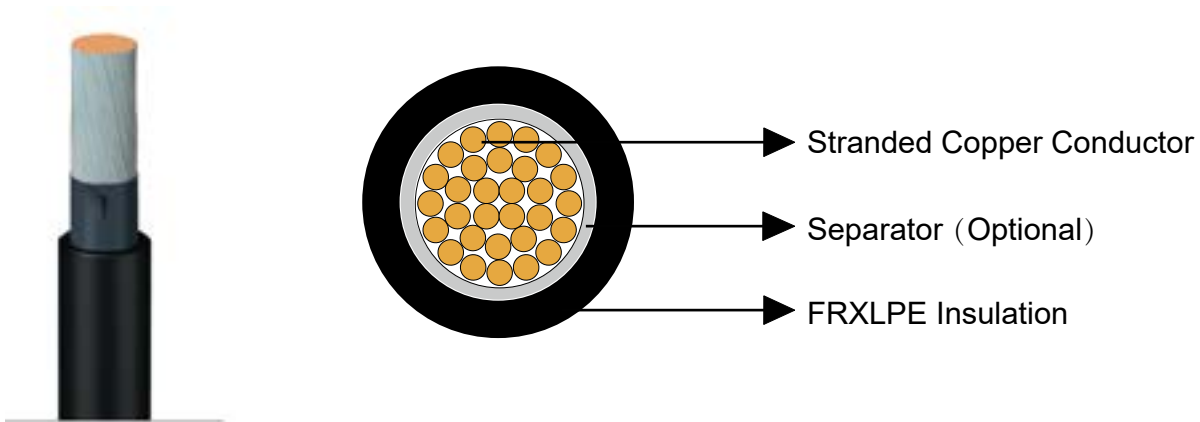




## WL1/ WL2

### » Applications

Cable for the vehicles is used as the purpose of a junction, withdraw, wiring itself and jumper wire in the electrical equipment of railroad vehicles.



### » Standards

KIS-ES-4001

### » Construction

Conductor: Stranded copper conductor.  
Insulation: Flame retardant cross linked PE (FRXLPE).

### » Electrical Properties

- » Rated Voltage : 600V, 1500V
- » Maximum conductor temperature in normal use: 110°C

# Caledonian Rolling Stock Cables



## » Data Parameter

### WL1 (600V)

Conductor			Thickness of Insulation	Overall Diameter		Conductor Resistance (20°C)	Test Voltage	Insulation Resistance (20°C)
Nominal Cross Section Area	Construction	Outer Diameter		Standard Approx	Upper Limit			
mm <sup>2</sup>	No./mm	mm	mm	mm	mm	Ω/km	KV/min	MΩ·km
0.5	20/0.18	1.0	1.1	3.3	3.6	38.6	2.2	80
0.75	30/0.18	1.2	1.1	3.5	3.8	25.8	2.2	80
1.25	50/0.18	1.5	1.1	3.8	4.1	15	2.2	70
2.0	37/0.26	1.8	1.1	4.2	4.4	9.91	2.2	60
3.5	45/0.32	2.5	1.1	4.8	5.2	5.38	2.2	45
6.0	84/0.3	3.3	1.1	5.4	5.8	3.3	2.2	40
8	50/0.45	3.7	1.1	6.0	6.4	2.32	2.2	35
14	88/0.45	4.9	1.1	7.2	7.6	1.32	2.2	30
16	126/0.4	5.3	1.2	7.6	8.0	1.21	2.2	30
25	196/0.4	6.8	1.4	10.0	10.5	0.78	2.2	25
30	7/27/0.45	8.1	1.4	11.0	11.4	0.661	2.2	20
38	7/34/0.45	9.1	1.4	12.0	12.4	0.496	2.2	20
50	19/16/0.45	10.4	1.8	14.1	14.4	0.389	2.5	20
60	19/20/0.45	11.6	1.8	15.4	15.6	0.329	2.5	20
80	19/27/0.45	13.5	1.8	17.2	17.6	0.230	2.5	20
100	19/34/0.45	15.2	2.3	19.9	20.3	0.183	3.0	20
125	19/42/0.45	16.9	2.3	21.8	22.2	0.149	3.0	20
150	19/34/0.45	18.7	2.3	23.6	24.0	0.129	3.0	20
200	37/34/0.45	21.2	2.5	26.5	20.0	0.099	3.0	20

### WL2 (1500V)

Conductor			Thickness of Insulation	Overall Diameter		Conductor Resistance (20°C)	Test Voltage	Insulation Resistance (20°C)
Nominal Cross Section Area	Construction	Outer Diameter		Standard Approx	Upper Limit			
mm <sup>2</sup>	No./mm	mm	mm	mm	mm	Ω/km	KV/min	MΩ·km
0.5	20/0.18	1.0	2.0	5.1	5.6	38.6	5.4	120
0.75	30/0.18	1.2	2.0	5.3	5.8	25.8	5.4	100
1.25	50/0.18	1.5	2.0	5.6	6.1	15.5	5.4	95
2.0	37/0.26	1.8	2.0	5.6	6.1	9.91	5.4	95
3.5	45/0.32	2.5	2.0	6.6	7.2	5.38	5.4	75
6.0	84/0.3	3.3	2.0	7.2	7.8	3.30	5.4	65



# Caledonian Rolling Stock Cables

Conductor			Thickness of Insulation	Overall Diameter		Conductor Resistance (20°C)	Test Voltage	Insulation Resistance (20°C)
Nominal Cross Section Area	Construction	Outer Diameter		Standard Approx	Upper Limit			
mm <sup>2</sup>	No./mm	mm	mm	mm	mm	Ω/km	kV/min	MΩ·km
8	50/0.45	3.7	2.0	7.8	8.4	2.32	5.4	60
16	126/0.4	5.3	2.0	9.0	9.7	1.21	5.4	50
25	196/0.4	6.8	2.0	11.1	11.9	0.780	5.4	45
30	7/27/0.45	8.1	2.0	12.3	13.0	0.661	5.4	35
38	7/34/0.45	9.1	2.0	13.2	14.1	0.496	5.4	30
50	19/16/0.45	10.4	2.5	15.5	16.4	0.389	5.4	30
60	19/20/0.45	11.6	2.5	16.8	17.6	0.329	5.4	30
80	19/27/0.45	13.5	2.5	18.6	19.6	0.230	5.4	25
100	19/34/0.45	15.2	2.5	20.3	21.4	0.183	5.4	25
125	19/42/0.45	16.9	2.5	23.0	23.1	0.149	5.4	20
150	19/34/0.45	18.7	2.5	24.0	24.9	0.129	5.4	20
200	37/34/0.45	21.2	3.0	28.0	28.5	0.099	5.4	20