

Table 2. TRDLRC

Number of cores	Conductor		Overall diameter		Main conductor resistance (20°C) (max.)	Net weight (approx.)	Tensile stress (max.)
	nominal cross-section	diameter (approx.)	Minimum	Maximum			
C	mm ²	mm	mm	mm	Ω/km	kg/km	N
1	16	5.6	12.5	14.9	1.24	320	240
1	25	7.0	14.4	17.0	0.795	440	375
1	35	8.2	15.9	18.7	0.565	560	525
1	50	9.9	18.1	21.1	0.393	760	750
1	70	11.8	20.1	23.3	0.277	1,000	1,050
1	95	13.5	22.3	25.7	0.210	1,270	1,425
1	120	15.3	24.4	28.0	0.164	1,560	1,800
1	150	17.1	26.7	30.5	0.132	1,910	2,250
1	185	18.6	28.7	32.7	0.108	2,280	2,775
1	240	21.3	32.2	36.6	0.0817	2,940	3,600
2	1.5	1.6	10.8	13.0	13.7	180	45
2	2.5	2.0	11.9	14.3	8.21	230	75
2	4	2.6	14.0	16.6	5.09	310	120
2	6	3.1	15.6	18.2	3.39	400	180
2	10	4.0	18.2	21.2	1.95	560	300
2	16	5.6	22.0	25.4	1.24	830	480
2	25	7.0	25.8	29.6	0.795	1,180	750
3	1.5	1.6	11.3	13.5	13.7	210	68
3	2.5	2.0	12.5	14.9	8.21	260	113
3	4	2.6	15.0	17.6	5.09	380	180
3	6	3.1	16.4	19.2	3.39	480	270
3	10	4.0	19.4	22.6	1.95	690	450
3	16	5.6	23.6	27.2	1.24	1,020	720
3	25	7.0	27.6	31.6	0.795	1,450	1,125
3	35	8.2	30.3	34.5	0.565	1,840	1,575
3	50	9.9	35.4	40.2	0.393	2,570	2,250
3	70	11.8	39.8	45.0	0.277	3,410	3,150
3	95	13.5	44.5	50.3	0.210	4,370	4,275
3	120	15.3	48.8	55.0	0.164	5,390	5,400
3	150	17.1	53.8	60.6	0.132	6,640	6,750
3	185	18.6	58.1	65.3	0.108	7,930	8,325
3	240	21.3	65.4	73.4	0.0817	10,260	10,800
3	300	24.1	72.9	81.7	0.0654	12,880	13,500

Table 2. TRDLRC (continued)

Number of cores	Conductor		Overall diameter		Main conductor resistance (20°C) (max.)	Net weight (approx.)	Tensile stress (max.)
	nominal cross-section	diameter (approx.)	Minimum	Maximum			
C	mm ²	mm	mm	mm	Ω/km	kg/km	N
4	1.5	1.6	12.0	14.4	13.7	240	90
4	2.5	2.0	13.7	16.1	8.21	320	150
4	4	2.6	16.3	19.1	5.09	460	240
4	6	3.1	17.7	20.7	3.39	570	360
4	10	4.0	21.3	24.5	1.95	850	600
4	16	5.6	25.7	29.5	1.24	1,260	960
4	25	7.0	30.4	34.6	0.795	1,820	1,500
4	35	8.2	33.5	38.1	0.565	2,330	2,100
4	50	9.9	39.1	44.3	0.393	3,260	3,000
4	70	11.8	44.1	49.7	0.277	4,330	4,200
4	95	13.5	49.4	55.6	0.210	5,560	5,700
4	120	15.3	54.1	60.9	0.164	6,880	7,200
4	150	17.1	59.9	67.3	0.132	8,500	9,000
4	185	18.6	64.9	72.7	0.108	10,190	11,100
4	240	21.3	72.9	81.7	0.0817	13,170	14,400
5	1.5	1.6	13.1	15.5	13.7	280	113
5	2.5	2.0	14.9	17.5	8.21	380	188
5	4	2.6	17.6	20.6	5.09	540	300
5	6	3.1	19.5	22.7	3.39	700	450
5	10	4.0	23.2	26.8	1.95	1,040	750
5	16	5.6	28.4	32.4	1.24	1,550	1,200
5	25	7.0	33.6	38.2	0.795	2,230	1,875
6	1.5	1.6	13.9	16.5	13.7	320	135
6	2.5	2.0	16.2	19.0	8.21	450	225
6	4	2.6	19.4	22.6	5.09	660	360
6	6	3.1	21.3	24.7	3.39	840	540
6	10	4.0	25.3	29.1	1.95	1,230	900
6	16	5.6	31.1	35.5	1.24	1,860	1,440
6	25	7.0	37.0	42.0	0.795	2,710	2,250
7	1.5	1.6	15.1	17.7	13.7	380	158
7	2.5	2.0	17.3	20.1	8.21	510	263
7	4	2.6	21.0	24.2	5.09	760	420
7	6	3.1	23.1	26.5	3.39	970	630
7	10	4.0	27.7	31.7	1.95	1,460	1,050

Table 2. TRDLRC (continued)

Number of cores	Conductor		Overall diameter		Main conductor resistance (20°C) (max.)	Net weight (approx.)	Tensile stress (max.)
	nominal cross-section	diameter (approx.)	Minimum	Maximum			
C	mm ²	mm	mm	mm	Ω/km	kg/km	N
7	16	5.6	33.8	38.4	1.24	2,180	1,680
7	25	7.0	40.4	45.8	0.795	3,200	2,625
9	1.5	1.6	17.2	20.0	13.7	490	203
9	2.5	2.0	19.9	23.1	8.21	680	338
9	4	2.6	24.2	27.8	5.09	1,000	540
9	6	3.1	26.7	30.5	3.39	1,280	810
9	10	4.0	32.2	36.6	1.95	1,930	1,350
9	16	5.6	39.8	45.0	1.24	2,940	2,160
9	25	7.0	47.4	53.4	0.795	4,290	3,375
12	1.5	1.6	20.4	23.6	13.7	680	270
12	2.5	2.0	23.9	27.5	8.21	960	450
12	4	2.6	29.0	33.2	5.09	1,410	720
15	1.5	1.6	19.4	22.6	13.7	620	338
15	2.5	2.0	22.4	25.8	8.21	860	563
15	4	2.6	27.4	31.4	5.09	1,280	900
15	6	3.1	30.3	34.5	3.39	1,700	1,350
15	10	4.0	36.5	41.5	1.95	2,580	2,250
16	1.5	1.6	19.9	23.1	13.7	650	360
16	2.5	2.0	23.2	26.6	8.21	920	600
16	4	2.6	28.1	32.1	5.09	1,360	960
18	1.5	1.6	21.0	24.2	13.7	730	405
18	2.5	2.0	24.4	28.0	8.21	1,030	675
18	4	2.6	29.7	33.9	5.09	1,520	1,080
20	1.5	1.6	21.9	25.3	13.7	790	450
20	2.5	2.0	25.5	29.3	8.21	1,130	750
20	4	2.6	31.3	35.7	5.09	1,690	1,200
24	1.5	1.6	24.4	28.0	13.7	950	540
24	2.5	2.0	28.4	32.4	8.21	1,350	900
24	4	2.6	35.0	39.8	5.09	2,030	1,440
25	1.5	1.6	25.3	29.1	13.7	1,050	563
25	2.5	2.0	29.6	33.8	8.21	1,500	938
25	4	2.6	36.3	41.1	5.09	2,220	1,500
30	1.5	1.6	26.5	30.4	13.7	1,120	675
30	2.5	2.0	31.0	35.5	8.21	1,610	1,125

Table 2. TRDLRC (continued)

Number of cores	Conductor		Overall diameter		Main conductor resistance (20°C) (max.)	Net weight (approx.)	Tensile stress (max.)
	nominal cross-section	diameter (approx.)	Minimum	Maximum			
C	mm ²	mm	mm	mm	Ω/km	kg/km	N
30	4	2.6	37.9	43.0	5.09	2,390	1,800
36	1.5	1.6	28.5	32.6	13.7	1,320	810
36	2.5	2.0	33.3	38.0	8.21	1,890	1,350
36	4	2.6	40.9	46.4	5.09	2,830	2,160
39	2.5	2.0	34.6	39.5	8.21	2,050	1,463

※ Cable construction

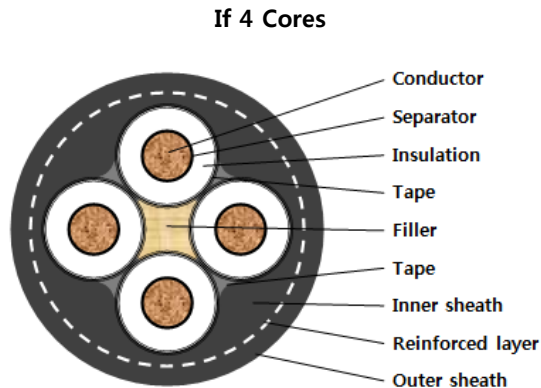


Table 3. Cable characteristics

Electrical Properties	Rated voltage		0.6/1kV
	Test voltage		3,500V/5min.
	Current rating		According to IEC 60364-5-52-523
Thermal Properties	Surface temperature		Mobile operation) -30°C ~ 60°C Fixed installation) -40°C ~ 80°C
	Max. conductor temperature - normal operation - short-circuit at 5s		90°C 250°C
Mechanical Properties	Application		Reeling cable for crane
	Tensile stress, max.		According to table 2
	Torsion stress, max.		±50deg./m
	Bending radius min.	20mm ≥ D 20mm < D	6 x D 8 x D (D : Cable diameter)
	Festoon speed, max.		100m/min.
Chemical properties	Oil resistant		IEC 60811-2-1, 10
	Flame test		IEC 60332-1
	For outdoor applications		Moisture, UV and ozone resistance

Specification Revision Record

No.	Date	Contents
1	2014. 07. 08	- Add to cable size(below 6C)
2	2014. 07. 18	- Add to cable size(below 12C)
3	2014. 08. 25	- Add to cable size(below 24C)
4	2014. 11. 20	- Add to cable size (39C)
5	2015. 02. 10	- Add to cable size (9C)
6	2015. 11. 30	- Add to cable size (1Cx300SQ, 3Cx300SQ)
7	2016. 04. 06	- Revise tolerance
8	2017. 03. 27	- Add to cable size (15Cx6SQ, 15Cx10SQ, 25Cx2.5SQ)