GKW-RW/S 300/500V Thin Wall Multicore

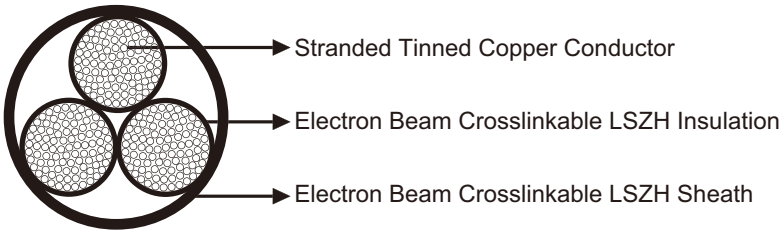
↘ Applications

Multi core power and control cable designed for protected, fixed installation inside and outside railway vehicles for connecting fixed and moving parts in direct current and alternating voltage technology, especially converter technology.

↘ Standard

- BS 6853 -Ia
- DIN 5510-2 1-4
- NFF 16-101 F0

↘ Construction



- **Conductors:** Circular Class 5 stranded tinned copper to IEC60228/VDE 0295.
- **Insulation:** Electron beam crosslinkable LSZH compound.
- **Sheath:** Electron beam crosslinkable LSZH compound.

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.5	0.75	1	1.5	2.5
Maximum Conductor Resistance	Ω/km	40.1	26.7	20.0	13.7	8.21
Voltage Rating	KV	0.3/0.5				

↘ Mechanical and Thermal Properties

Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

↘ Dimensions and Weight

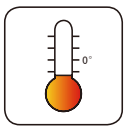
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×0.5	16/0.20	0.18	4.5	29
3×0.5	16/0.20	0.18	4.6	36
4×0.5	16/0.20	0.18	5.0	44
5×0.5	16/0.20	0.18	5.4	52
6×0.5	16/0.20	0.18	5.9	59
7×0.5	16/0.20	0.18	6.4	71
8×0.5	16/0.20	0.18	6.8	81
9×0.5	16/0.20	0.18	7.1	81
10×0.5	16/0.20	0.18	7.3	88
12×0.5	16/0.20	0.18	7.5	101
14×0.5	16/0.20	0.18	7.9	115
16×0.5	16/0.20	0.18	8.3	128
18×0.5	16/0.20	0.18	8.8	144
19×0.5	16/0.20	0.18	8.8	148
20×0.5	16/0.20	0.18	9.3	161
24×0.5	16/0.20	0.18	10.2	181
27×0.5	16/0.20	0.18	10.6	200
36×0.5	16/0.20	0.18	11.9	261
48×0.5	16/0.20	0.18	13.5	337
2×0.75	24/0.20	0.18	4.8	37
3×0.75	24/0.20	0.18	5.1	48
4×0.75	24/0.20	0.18	5.6	58
5×0.75	24/0.20	0.18	6.1	69
6×0.75	24/0.20	0.18	6.7	81
7×0.75	24/0.20	0.18	7.1	93
8×0.75	24/0.20	0.18	7.7	108
9×0.75	24/0.20	0.18	8.1	108
10×0.75	24/0.20	0.18	8.3	118
12×0.75	24/0.20	0.18	8.6	137
14×0.75	24/0.20	0.18	9.0	156
16×0.75	24/0.20	0.18	9.5	175
18×0.75	24/0.20	0.18	10.0	198
19×0.75	24/0.20	0.18	10.1	202
20×0.75	24/0.20	0.18	10.5	219
24×0.75	24/0.20	0.18	11.7	248
27×0.75	24/0.20	0.18	12.2	275
36×0.75	24/0.20	0.18	13.7	362
48×0.75	24/0.20	0.18	15.5	468
2×1.0	32/0.20	0.18	5.2	45
3×1.0	32/0.20	0.18	5.5	59
4×1.0	32/0.20	0.18	6.2	73

No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
5×1.0	32/0.20	0.18	6.7	87
6×1.0	32/0.20	0.18	7.3	102
7×1.0	32/0.20	0.18	7.9	119
8×1.0	32/0.20	0.18	8.4	135
9×1.0	32/0.20	0.18	8.9	137
10×1.0	32/0.20	0.18	9.1	150
12×1.0	32/0.20	0.18	9.4	174
14×1.0	32/0.20	0.18	9.9	199
16×1.0	32/0.20	0.18	10.4	223
18×1.0	32/0.20	0.18	11.0	254
19×1.0	32/0.20	0.18	11.1	259
20×1.0	32/0.20	0.18	11.7	282
24×1.0	32/0.20	0.18	12.9	319
27×1.0	32/0.20	0.18	13.4	354
36×1.0	32/0.20	0.18	15.1	467
48×1.0	32/0.20	0.18	17.2	607
2×1.5	30/0.25	0.22	6.0	59
3×1.5	30/0.25	0.22	6.4	81
4×1.5	30/0.25	0.22	7.1	99
5×1.5	30/0.25	0.22	7.7	123
6×1.5	30/0.25	0.22	8.5	143
7×1.5	30/0.25	0.22	9.1	163
8×1.5	30/0.25	0.22	9.8	188
9×1.5	30/0.25	0.22	10.5	189
10×1.5	30/0.25	0.22	10.7	215
12×1.5	30/0.25	0.22	11.1	244
14×1.5	30/0.25	0.22	11.7	279
16×1.5	30/0.25	0.22	12.3	326
18×1.5	30/0.25	0.22	13.0	358
19×1.5	30/0.25	0.22	13.1	366
20×1.5	30/0.25	0.22	13.7	396
24×1.5	30/0.25	0.22	15.3	450
27×1.5	30/0.25	0.22	15.9	501
36×1.5	30/0.25	0.22	17.9	663
37×1.5	30/0.25	0.22	18.5	719
48×1.5	30/0.25	0.22	20.5	864
2×2.5	50/0.25	0.28	7.1	89
3×2.5	50/0.25	0.28	7.4	117
4×2.5	50/0.25	0.28	8.3	150
5×2.5	50/0.25	0.28	9.1	182
6×2.5	50/0.25	0.28	9.9	209
7×2.5	50/0.25	0.28	10.8	246
8×2.5	50/0.25	0.28	11.7	285
9×2.5	50/0.25	0.28	12.5	286

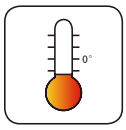
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
10×2.5	50/0.25	0.28	12.7	318
12×2.5	50/0.25	0.28	13.1	372
14×2.5	50/0.25	0.28	13.9	428
16×2.5	50/0.25	0.28	14.7	483
18×2.5	50/0.25	0.28	15.2	538
19×2.5	50/0.25	0.28	15.5	565
20×2.5	50/0.25	0.28	16.4	612
24×2.5	50/0.25	0.28	18.3	695
27×2.5	50/0.25	0.28	18.9	776
36×2.5	50/0.25	0.28	21.3	1030
48×2.5	50/0.25	0.28	24.5	1347


Impact Resistant


Highly Flexible


Cold Resistant

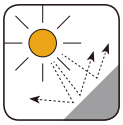

Soldering Heat Resistant


Low Temperature Resistant


Abrasion Resistant


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali Resistant


Corona Resistant


Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266


Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1


Low Corrosivity
EN 50267-2-2/NF C32-074
IEC 60754-2/NF C20-453


Low Smoke Emission
IEC 61034/NFC20-902
EN 50268/NF C32-073


Low Toxicity

Zero Halogen
IEC 60754-1/NF C20-454
EN 50267-2-1