



## 3GKW-DW/S EMC 0.6/1KV Dual Wall Screened Multicore

### Applications

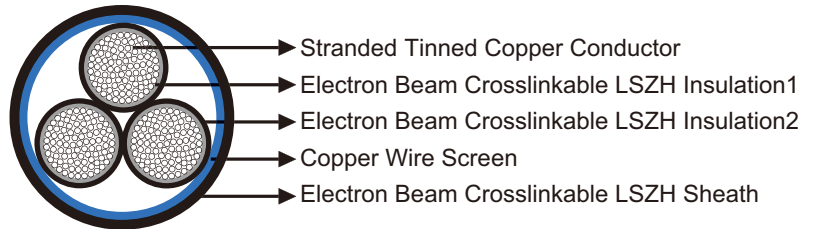
Multi core power and control cable designed for protected, fixed installation inside and outside railway vehicles for connecting fixed and moving parts in direct current and alternating voltage technology, especially converter technology.



### 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.
- **Insulation1:** Electron beam crosslinkable LSZH compound.
- **Insulation2:** Electron beam crosslinkable LSZH compound.
- **Screen:** Copper wire screen.
- **Sheath:** Electron beam crosslinkable LSZH compound.

### Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm <sup>2</sup>	0.25	0.5	0.75	1	1.5	2.5
Maximum Conductor Resistance	Ω/km	88.5	40.1	26.7	20.0	13.7	8.21
Voltage Rating	KV	0.6/1					

### Mechanical and Thermal Properties

Minimum Bending Radius: 4xOD (Static); 8xOD (Flexing)  
 Temperature Range: -60°C ~+120°C (Static); -40°C ~+90°C (Flexing)  
 Short Circuit Temperature: +280°C



↳ **Dimensions and Weight**

No. of cores & Nominal Conductor Cross Sectional Area No. × mm <sup>2</sup>	Number and Nominal Diameter of Strands No/mm		Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×2×0.25	19/0.13		0.2	5.7	48
3×2×0.25	19/0.13		0.2	6.1	57
4×2×0.25	19/0.13		0.2	7.0	72
7×2×0.25	19/0.13		0.2	7.8	92
25×0.25	19/0.13		0.2	8.9	139
2×0.5	19/0.18	16/0.20	0.2	4.3	34
3×0.5	19/0.18	16/0.20	0.2	4.5	40
4×0.5	19/0.18	16/0.20	0.2	4.8	47
5×0.5	19/0.18	16/0.20	0.2	5.4	58
6×0.5	19/0.18	16/0.20	0.2	5.9	70
7×0.5	19/0.18	16/0.20	0.2	6.3	80
8×0.5	19/0.18	16/0.20	0.2	6.8	86
9×0.5	19/0.18	16/0.20	0.2	7.2	95
10×0.5	19/0.18	16/0.20	0.2	7.2	101
12×0.5	19/0.18	16/0.20	0.2	7.4	110
15×0.5	19/0.18	16/0.20	0.2	8.5	135
16×0.5	19/0.18	16/0.20	0.2	8.5	142
18×0.5	19/0.18	16/0.20	0.2	8.9	162
20×0.5	19/0.18	16/0.20	0.2	9.3	183
22×0.5	19/0.18	16/0.20	0.2	9.9	195
25×0.5	19/0.18	16/0.20	0.2	10.3	213
27×0.5	19/0.18	16/0.20	0.2	10.5	231
30×0.5	19/0.18	16/0.20	0.2	11.3	265
36×0.5	19/0.18	16/0.20	0.2	12.1	301
42×0.5	19/0.18	16/0.20	0.2	12.9	359
48×0.5	19/0.18	16/0.20	0.2	13.6	410
50×0.5	19/0.18	16/0.20	0.2	14.2	430
2×2×0.5	19/0.18	16/0.20	0.2	6.4	69
3×2×0.5	19/0.18	16/0.20	0.2	6.7	80
4×2×0.5	19/0.18	16/0.20	0.2	7.4	95
5×2×0.5	19/0.18	16/0.20	0.2	9.2	136
6×2×0.5	19/0.18	16/0.20	0.2	9.2	148
8×2×0.5	19/0.18	16/0.20	0.2	9.7	155
10×2×0.5	19/0.18	16/0.20	0.2	10.9	200
12×2×0.5	19/0.18	16/0.20	0.2	12.1	239
15×2×0.5	19/0.18	16/0.20	0.2	13.0	300
16×2×0.5	19/0.18	16/0.20	0.2	13.0	320
20×2×0.5	19/0.18	16/0.20	0.2	14.4	360
2×3×0.5	19/0.18	16/0.20	0.2	7.3	90
2×0.75	19/0.22	24/0.20	0.2	4.8	40
3×0.75	19/0.22	24/0.20	0.2	5.0	50
4×0.75	19/0.22	24/0.20	0.2	5.5	62



No. of cores & Nominal Conductor Cross Sectional Area No. x mm <sup>2</sup>	Number and Nominal Diameter of Strands No/mm		Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
5x0.75	19/0.22	24/0.20	0.2	6.1	75
6x0.75	19/0.22	24/0.20	0.2	6.6	85
7x0.75	19/0.22	24/0.20	0.2	7.2	100
8x0.75	19/0.22	24/0.20	0.2	7.7	113
10x0.75	19/0.22	24/0.20	0.2	8.1	130
12x0.75	19/0.22	24/0.20	0.2	8.4	150
14x0.75	19/0.22	24/0.20	0.2	9.1	169
16x0.75	19/0.22	24/0.20	0.2	9.7	206
18x0.75	19/0.22	24/0.20	0.2	10.1	230
20x0.75	19/0.22	24/0.20	0.2	11.1	256
24x0.75	19/0.22	24/0.20	0.2	12.0	294
25x0.75	19/0.22	24/0.20	0.2	12.3	300
2x2x0.75	19/0.22	24/0.20	0.2	7.1	85
3x2x0.75	19/0.22	24/0.20	0.2	7.6	109
4x2x0.75	19/0.22	24/0.20	0.2	9.9	143
5x2x0.75	19/0.22	24/0.20	0.2	10.7	182
6x2x0.75	19/0.22	24/0.20	0.2	11.9	226
7x2x0.75	19/0.22	24/0.20	0.2	13.2	279
8x2x0.75	19/0.22	24/0.20	0.2	13.4	291
10x2x0.75	19/0.22	24/0.20	0.2	14.8	333
3x3x0.75	19/0.22	24/0.20	0.2	8.9	151
5x4x0.75	19/0.22	24/0.20	0.2	12.8	288
2x1.0	19/0.25	32/0.20	0.2	5.0	50
3x1.0	19/0.25	32/0.20	0.2	5.5	60
4x1.0	19/0.25	32/0.20	0.2	5.8	72
5x1.0	19/0.25	32/0.20	0.2	6.6	88
6x1.0	19/0.25	32/0.20	0.2	7.3	114
7x1.0	19/0.25	32/0.20	0.2	7.9	133
8x1.0	19/0.25	32/0.20	0.2	8.5	150
9x1.0	19/0.25	32/0.20	0.2	8.9	160
10x1.0	19/0.25	32/0.20	0.2	8.9	168
12x1.0	19/0.25	32/0.20	0.2	9.2	188
16x1.0	19/0.25	32/0.20	0.2	10.5	250
18x1.0	19/0.25	32/0.20	0.2	11.2	275
25x1.0	19/0.25	32/0.20	0.2	12.7	355
27x1.0	19/0.25	32/0.20	0.2	13.3	395
30x1.0	19/0.25	32/0.20	0.2	13.8	450
36x1.0	19/0.25	32/0.20	0.2	15.1	530
42x1.0	19/0.25	32/0.20	0.2	16.3	604
50x1.0	19/0.25	32/0.20	0.2	17.8	690
2x2x1.0	19/0.25	32/0.20	0.2	7.8	107
4x2x1.0	19/0.25	32/0.20	0.2	9.4	128
6x2x1.0	19/0.25	32/0.20	0.2	11.6	239
12x2x1.0	19/0.25	32/0.20	0.2	14.3	400



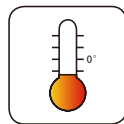
No. of cores & Nominal Conductor Cross Sectional Area No. × mm <sup>2</sup>	Number and Nominal Diameter of Strands No/mm		Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
4×3×1.0	19/0.25	32/0.20	0.2	11.5	230
3×4×1.0	19/0.25	32/0.20	0.2	11.3	245
4×4×1.0	19/0.25	32/0.20	0.2	12.5	265
2×1.5	37/0.22	30/0.25	0.3	5.8	70
3×1.5	37/0.22	30/0.25	0.3	6.1	81
4×1.5	37/0.22	30/0.25	0.3	6.7	100
5×1.5	37/0.22	30/0.25	0.3	7.7	134
6×1.5	37/0.22	30/0.25	0.3	8.3	153
7×1.5	37/0.22	30/0.25	0.3	9.1	184
8×1.5	37/0.22	30/0.25	0.3	10.3	222
9×1.5	37/0.22	30/0.25	0.3	10.5	234
10×1.5	37/0.22	30/0.25	0.3	10.5	240
12×1.5	37/0.22	30/0.25	0.3	10.9	268
16×1.5	37/0.22	30/0.25	0.3	12.5	364
18×1.5	37/0.22	30/0.25	0.3	13.2	405
25×1.5	37/0.22	30/0.25	0.3	15.8	562
48×1.5	37/0.22	30/0.25	0.3	20.7	988
2×2×1.5	37/0.22	30/0.25	0.3	9.2	153
3×2×1.5	37/0.22	30/0.25	0.3	9.8	205
7×2×1.5	37/0.22	30/0.25	0.3	12.6	330
2×2.5	37/0.29	50/0.25	0.3	7.0	105
3×2.5	37/0.29	50/0.25	0.3	7.6	130
4×2.5	37/0.29	50/0.25	0.3	8.4	170
5×2.5	37/0.29	50/0.25	0.3	9.4	190
6×2.5	37/0.29	50/0.25	0.3	10.3	225
7×2.5	37/0.29	50/0.25	0.3	11.4	270
8×2.5	37/0.29	50/0.25	0.3	12.6	343
10×2.5	37/0.29	50/0.25	0.3	13.2	370
12×2.5	37/0.29	50/0.25	0.3	13.6	420
16×2.5	37/0.29	50/0.25	0.3	15.6	560
18×2.5	37/0.29	50/0.25	0.3	16.6	620
25×2.5	37/0.29	50/0.25	0.3	19.3	834
27×2.5	37/0.29	50/0.25	0.3	20.5	870
48×2.5	37/0.29	50/0.25	0.3	25.6	1560



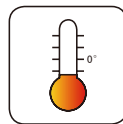
Impact Resistant



Highly Flexible



Cold Resistant



Soldering Heat Resistant



Low Temperature Resistant



Corona Resistant



Fire Retardant



Flame Retardant



Low Corrosivity



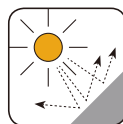
IRM 903 Fuel Oil Resistant



IRM 902 Mineral Oil Resistant



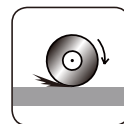
UV Resistant



Ozone Resistant



Acid and Alkali Resistant



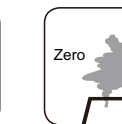
Abrasion Resistant



Low Smoke Emission



Low Toxicity



Zero Halogen