ADDISON

Caledonian

Caledonian Railway Cables

TRACTION CABLES & HIGH TEMPERATURE CABLES FOR RAILWAY APPLICATION

www.caledonian-cables.co.uk
www.addison-cables.com

www.caledonian-cables.co.uk

COMPANY PROFILE

Caledonian & Addison, established in 1978, produced a wide range of copper and fiber optic cables for communication, power and electronics in its 2 plants in UK and 5 plants in China. Caledonian products are sold in more than 35 countries around the globe.


ISO 9001
REGISTERED FIRM

Registration Certificate

This document certifies that the administration systems of

Caledonian Cables Limited/Addison Technology Limited

have been assessed and approved by QAS International to the following management systems, standards and guidelines:

ISO 9001 : 2008

The approved administration systems apply to the following:

The manufacture and supply of electrical cables and ancillary power equipment to customers internationally.

Original Approval 8th September 1997
Current Certificate 17th February 2010
Certificate Expiry 17th February 2011
Certificate Number A6211

On behalf of QAS International

Our extensive global network of manufacturing facilities gives us significant scale and the flexibility to fulfill our customer requirements. This global presence provides design and consultancy solutions that are combined with core cable manufacturing and logistics services, and vertically integrated with our E commerce technologies, to optimize customer operations by lowering costs and reducing time to market.

Caledonian & Addison has been respected for its high standards of quality, excellent service level, competitive pricing and a unique and innovative spirit. With our latest technologies, we are both inspired and well-positioned to meet the changing needs of our customers. We have the resources to diversify and to enhance our product lines and services. We understand the need for change and with our accurate planning we are ready for the future and the promise of new marketing opportunities. Our tradition of growth through excellence is assured.

Our Design Centers work closely with customers to constantly improve its standard range of products and technologies and to develop customized, country and industry-specific solutions. Caledonian has established an extensive network of design, manufacturing, and logistics facilities in the world's major markets to serve the growing outsourcing needs of both multinational and regional customers.

Caledonian
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TRACTION CABLES FOR RAILWAY APPLICATION

HIGH TEMPERATURE CABLES FOR RAILWAY APPLICATION

ORDERING INFORMATION

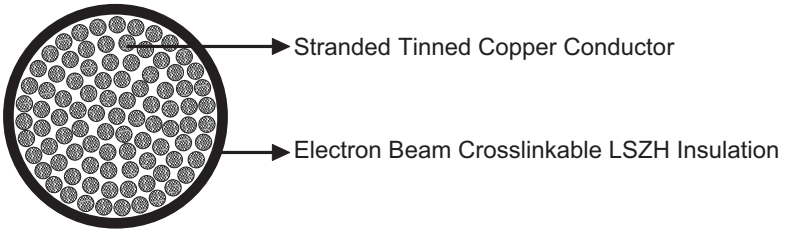
GKW-RW 300/500V Thin Wall Single Core

↘ Applications

Single 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 -1a
- 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.

↘ 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

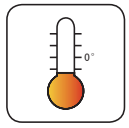
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -40℃ ~+120℃ (Static); -35℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

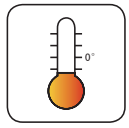
↘ Dimensions and Weight

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
1×0.5	16/0.20	0.18	1.3	6
1×0.75	24/0.20	0.18	1.56	9
1×1.0	32/0.20	0.18	1.7	12
1×1.5	30/0.25	0.22	2.04	17
1×2.5	50/0.25	0.28	2.66	27


Impact Resistant

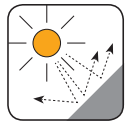

Highly Flexible

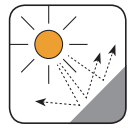

Cold Resistant


Soldering Heat Resistant


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali 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 Toxicity


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

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

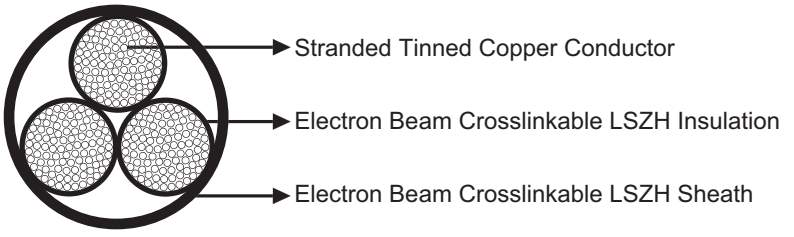
GKW-RW/S 300/500V Thin Wall Multicore

↘ 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 -1a
- 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

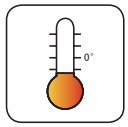
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

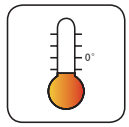
↘ Dimensions and Weight

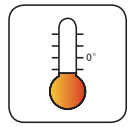
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×0.5	16/0.20	0.18	4.5	29
3×0.5	16/0.20	0.18	4.6	36
4×0.5	16/0.20	0.18	5.0	44
5×0.5	16/0.20	0.18	5.4	52
6×0.5	16/0.20	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
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
16×0.75	24/0.20	0.18	9.5	175
18×0.75	24/0.20	0.18	10.1	198
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
5×1.0	32/0.20	0.18	6.7	87
12×1.0	32/0.20	0.18	9.4	174
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	192
10×1.5	30/0.25	0.22	10.5	215
12×1.5	30/0.25	0.22	11.1	244
16×1.5	30/0.25	0.22	12.3	326
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


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature Resistant


Corona Resistant


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

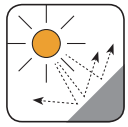

Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1


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

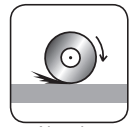

IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant

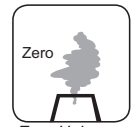

Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

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

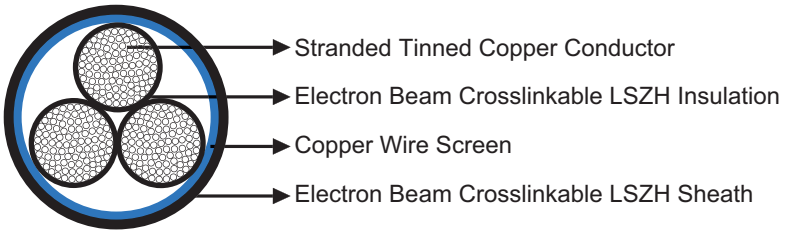
↘ Applications

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 -1a
- 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.
- **Screen:** Copper wire screen.
- **Sheath:** Electron beam crosslinkable LSZH compound.

↘ Electrical Characteristics at 20℃

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

↘ Mechanical and Thermal Properties

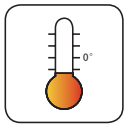
Minimum Bending Radius: 4xOD (Static); 8xOD (Flexing)
Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

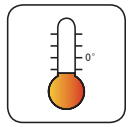
↘ Dimensions and Weight

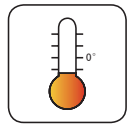
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×0.5	16/0.20	0.18	4.8	31
3×0.5	16/0.20	0.18	5.0	43
4×0.5	16/0.20	0.18	5.4	50
5×0.5	16/0.20	0.18	6.1	58
6×0.5	16/0.20	0.18	6.5	77
10×0.5	16/0.20	0.18	7.7	111
12×0.5	16/0.20	0.18	8.1	128
14×0.5	16/0.20	0.18	8.6	140
27×0.5	16/0.20	0.18	11.1	238
2×2×0.5	16/0.20	0.18	7.1	89
3×2×0.5	16/0.20	0.18	7.5	103
4×2×0.5	16/0.20	0.18	8.2	130
2×0.75	24/0.20	0.18	5.3	46
3×0.75	24/0.20	0.18	5.6	55
4×0.75	24/0.20	0.18	6.2	63
6×0.75	24/0.20	0.18	7.4	105
7×0.75	24/0.20	0.18	7.7	119
8×0.75	24/0.20	0.18	8.3	137
12×0.75	24/0.20	0.18	9.3	168
16×0.75	24/0.20	0.18	9.8	187
2×2×0.75	24/0.20	0.18	8.0	100
2×1.0	32/0.20	0.18	5.9	63
3×1.0	32/0.20	0.18	6.2	75
4×1.0	32/0.20	0.18	6.8	89
5×1.0	32/0.20	0.18	7.3	108
12×1.0	32/0.20	0.18	10.0	209
2×2×1.0	32/0.20	0.18	8.9	116
2×1.5	30/0.25	0.22	6.7	80
3×1.5	30/0.25	0.22	7.1	98
4×1.5	30/0.25	0.22	7.6	118
5×1.5	30/0.25	0.22	8.3	144
6×1.5	30/0.25	0.22	9.1	170
12×1.5	30/0.25	0.22	11.7	285


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature Resistant


Corona Resistant


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

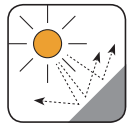

Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1


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


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

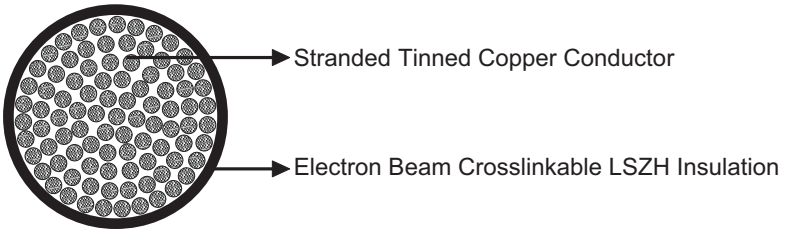
3GKW-RW 0.6/1KV Thin Wall Single Core

↘ Applications

Single 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 -1a
- 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.

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.5	0.6	0.75	1	1.2	1.5	2.0	2.5	3	4.0
AWG			20		18	16		14		12	
Maximum Conductor Resistance	Ω/km	40.1	31.1	26.7	20.0	15.5	13.7	10.5	8.21	6.56	5.09
Voltage Rating	KV	0.6/1									

↘ Mechanical and Thermal Properties

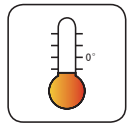
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -40℃ ~+120℃ (Static); -35℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

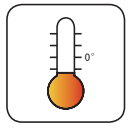
↘ Dimensions and Weight

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
1×0.5	16/0.20	0.3	1.40	6
1×0.6	19/0.20	0.3	1.50	7
1×0.75	24/0.20	0.3	1.60	8.3
1×1.0	32/0.20	0.3	1.73	11
1×1.2	19/0.28	0.3	2.00	13
1×1.5	30/0.25	0.3	2.14	16
1×2.0	37/0.25	0.4	2.40	19
1×2.5	50/0.25	0.4	2.70	26
1×4	56/0.30	0.4	3.35	40

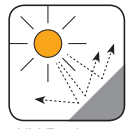

Impact Resistant

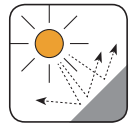

Highly Flexible


Cold Resistant


Soldering Heat Resistant


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali Resistant

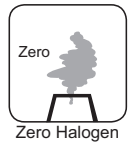

Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266


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 Toxicity


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



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

3GKW-RW/S 0.6/1KV Thin Wall Multicore

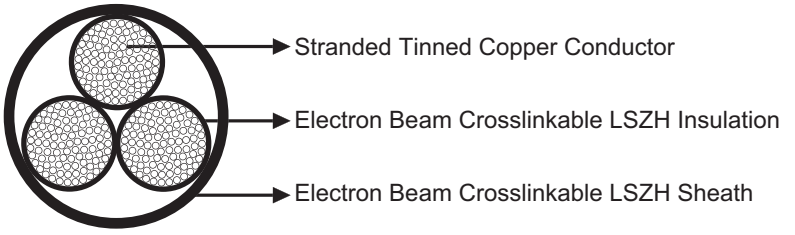
↘ Applications

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 -1a
- 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	0.6/1				

↘ Mechanical and Thermal Properties

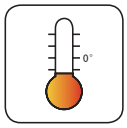
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

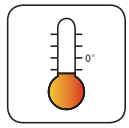
↘ Dimensions and Weight

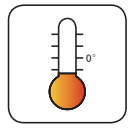
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×0.5	16/0.20	0.3	4.4	29
3×0.5	16/0.20	0.3	4.6	36
4×0.5	16/0.20	0.3	5.0	44
5×0.5	16/0.20	0.3	5.4	52
6×0.5	16/0.20	0.3	5.9	62
2×2×0.5	16/0.20	0.3	6.5	58
4×2×0.5	16/0.20	0.3	8.7	99
2×0.75	24/0.20	0.3	4.75	35
3×0.75	24/0.20	0.3	5.2	48
4×0.75	24/0.20	0.3	5.6	58
6×0.75	24/0.20	0.3	6.7	83
2×2×0.75	24/0.20	0.3	7.75	81
2×1.0	32/0.20	0.3	5.1	45
3×1.0	32/0.20	0.3	5.4	54
4×1.0	32/0.20	0.3	5.8	64
6×1.0	32/0.20	0.3	7.3	98
10×1.0	32/0.20	0.3	8.9	150
25×1.0	32/0.20	0.3	12.8	324
2×1.5	30/0.25	0.3	6.0	63
3×1.5	30/0.25	0.3	6.3	76
4×1.5	30/0.25	0.3	6.9	94
5×1.5	30/0.25	0.3	7.7	120
6×1.5	30/0.25	0.3	8.5	141
8×1.5	30/0.25	0.3	10.2	201
10×1.5	30/0.25	0.3	10.5	216
18×1.5	30/0.25	0.3	13.4	358
2×2.5	50/0.25	0.4	7.2	98
3×2.5	50/0.25	0.4	7.5	122
4×2.5	50/0.25	0.4	8.7	147
5×2.5	50/0.25	0.4	9.3	180
6×2.5	50/0.25	0.4	10.6	223


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature Resistant


Corona Resistant


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

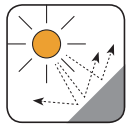

Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1


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


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

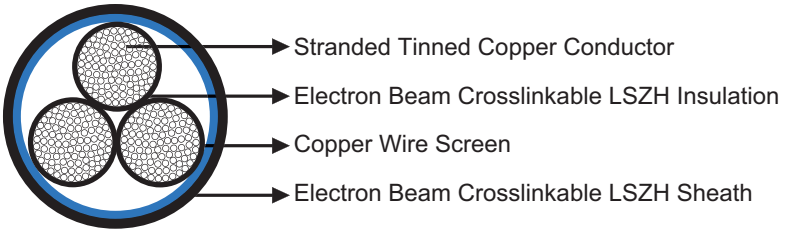
3GKW-RW/S EMC 0.6/1KV
Thin Wall Screened Multicore

↘ 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 -1a
- 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.
- **Screen:** Copper wire screen.
- **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	0.6/1				

↘ Mechanical and Thermal Properties

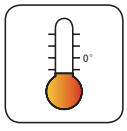
Minimum Bending Radius: 4xOD (Static); 8xOD (Flexing)
Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

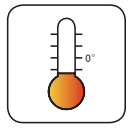
↘ Dimensions and Weight

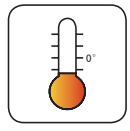
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×0.5	16/0.20	0.3	4.8	42
3×0.5	16/0.20	0.3	5.0	51
4×0.5	16/0.20	0.3	5.4	56
6×0.5	16/0.20	0.3	6.5	82
15×0.5	16/0.20	0.3	9.0	167
3×2×0.5	16/0.20	0.3	8.1	98
12×2×0.5	16/0.20	0.3	13.0	276
2×0.75	24/0.20	0.3	5.0	48
4×0.75	24/0.20	0.3	6.0	72
6×0.75	24/0.20	0.3	7.2	103
10×0.75	24/0.20	0.3	8.7	152
18×0.75	24/0.20	0.3	11.0	244
3×2×0.75	24/0.20	0.3	9.0	127
2×1.0	32/0.20	0.3	5.6	60
3×1.0	32/0.20	0.3	6.0	76
4×1.0	32/0.20	0.3	6.5	88
6×1.0	32/0.20	0.3	7.8	114
8×1.0	32/0.20	0.3	8.9	171
25×1.0	32/0.20	0.3	13.8	392
2×2×1.0	32/0.20	0.3	8.3	117
2×1.5	30/0.25	0.3	6.5	86
3×1.5	30/0.25	0.3	6.8	95
4×1.5	30/0.25	0.3	7.4	118
6×1.5	30/0.25	0.3	9.0	168
18×1.5	30/0.25	0.3	14.4	452
2×2.5	50/0.25	0.4	7.8	122
6×2.5	50/0.25	0.4	11.4	268


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature Resistant


Corona Resistant

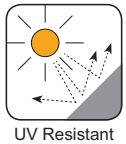

Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266


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


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

3GKW-SW 0.6/1KV
Standard Wall Single Core

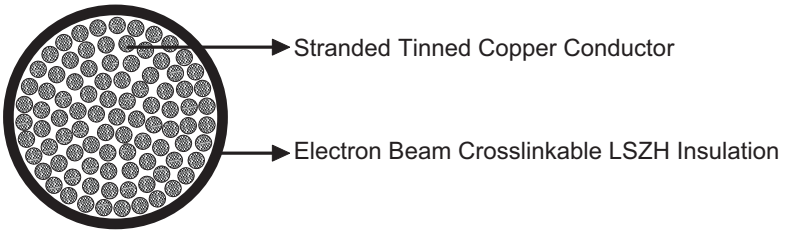
↘ Applications

Single 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 -1a
- 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.

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.5	0.75	1	1.5	2.5	4.0	6.0	10	16	25	35
Maximum Conductor Resistance	Ω/km	40.1	26.7	20.0	13.7	8.21	5.09	3.39	1.95	1.24	0.795	0.565
Voltage Rating	KV	0.6/1										

Nominal Conductor Cross Section	mm²	50	70	95	120	150	185	240	300	400
Maximum Conductor Resistance	Ω/km	0.393	0.277	0.21	0.164	0.132	0.108	0.0817	0.0654	0.0495
Voltage Rating	KV	0.6/1								

↘ Mechanical and Thermal Properties

Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -40℃ ~+120℃ (Static); -35℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

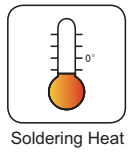
↘ Dimensions and Weight

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
1×0.5	16/0.20	0.6	2.0	8
1×0.75	24/0.20	0.6	2.2	11
1×1.0	32/0.20	0.6	2.4	14
1×1.5	30/0.25	0.7	2.7	20
1×2.5	50/0.25	0.7	3.3	31
1×4	56/0.30	0.7	3.9	45
1×6	84/0.30	0.7	4.4	69
1×10	80/0.40	0.7	5.3	113
1×16	126/0.40	0.7	7.0	156
1×25	196/0.40	0.9	8.5	250
1×35	276/0.40	0.9	9.8	330
1×50	396/0.40	1.0	11.9	500
1×70	360/0.50	1.0	14.1	690
1×95	475/0.50	1.1	15.9	883
1×120	608/0.50	1.1	17.4	1180
1×150	756/0.50	1.4	20.3	1460
1×185	925/0.50	1.6	22.0	1780
1×240	1221/0.50	1.7	25.2	2220
1×300	1525/0.50	1.8	28.0	3000
1×400	2013/0.50	2.0	31.5	4000

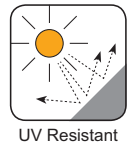

Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali 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 Toxicity


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

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

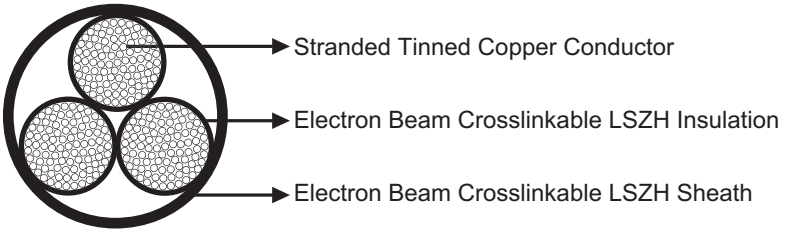
3GKW-SW/S 0.6/1KV
Standard Wall Multicore

↘ 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 -1a
- 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	4.0
Maximum Conductor Resistance	Ω/km	40.1	26.7	20.0	13.7	8.21	5.09
Voltage Rating	KV	0.6/1					

↘ Mechanical and Thermal Properties

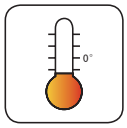
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

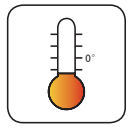
↘ Dimensions and Weight

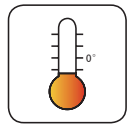
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×0.5	16/0.20	0.6	5.5	39
3×0.5	16/0.20	0.6	5.7	50
4×0.5	16/0.20	0.6	6.3	62
5×0.5	16/0.20	0.6	6.9	74
7×0.5	16/0.20	0.6	8.2	99
10×0.5	16/0.20	0.6	9.3	125
2×0.75	24/0.20	0.6	6.0	49
3×0.75	24/0.20	0.6	6.2	63
4×0.75	24/0.20	0.6	6.9	77
5×0.75	24/0.20	0.6	7.7	96
7×0.75	24/0.20	0.6	9.1	131
2×1.0	32/0.20	0.6	6.4	59
3×1.0	32/0.20	0.6	6.8	78
4×1.0	32/0.20	0.6	7.4	93
5×1.0	32/0.20	0.6	8.3	115
7×1.0	32/0.20	0.6	9.9	163
2×1.5	30/0.25	0.7	7.1	75
3×1.5	30/0.25	0.7	7.4	96
4×1.5	30/0.25	0.7	8.3	120
5×1.5	30/0.25	0.7	9.1	146
7×1.5	30/0.25	0.7	11.1	173
12×1.5	30/0.25	0.7	13.4	305
2×2.5	50/0.25	0.7	8.5	115
3×2.5	50/0.25	0.7	8.9	149
4×2.5	50/0.25	0.7	9.9	183
5×2.5	50/0.25	0.7	11.1	228
7×2.5	50/0.25	0.7	13.0	309
3×4	56/0.30	0.7	10.2	207
4×4	56/0.30	0.7	11.3	261
5×4	56/0.30	0.7	12.6	324


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature 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


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant

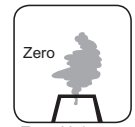

Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

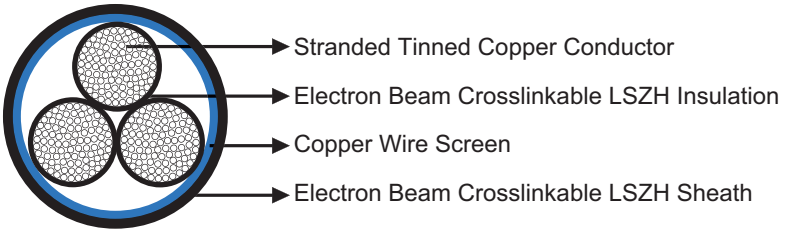
3GKW-SW/S EMC 0.6/1KV Standard Wall Screened Multicore

↘ 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 -1a
- 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.
- **Screen:** Copper wire screen.
- **Sheath:** Electron beam crosslinkable LSZH compound.

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	1.5	2.5	4.0	10	16	25	35	50
Maximum Conductor Resistance	Ω/km	13.7	8.21	5.09	1.95	1.24	0.795	0.565	0.393
Voltage Rating	KV	0.6/1							

↘ Mechanical and Thermal Properties

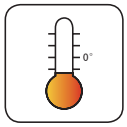
Minimum Bending Radius: 4xOD (Static); 8xOD (Flexing)
Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

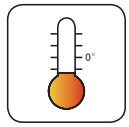
↘ Dimensions and Weight

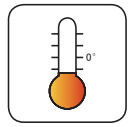
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×0.5	16/0.2	0.6	6.6	68
4×0.5	16/0.2	0.6	7.5	102
7×0.5	16/0.2	0.6	9.8	150
15×0.5	16/0.2	0.6	13.2	240
9×2×0.5	24/0.20	0.6	20.6	540
3×0.75	24/0.20	0.6	7.5	90
6×0.75	24/0.20	0.6	9.9	165
9×0.75	24/0.20	0.6	12.3	245
16×0.75	24/0.20	0.6	14.3	348
5×2×0.75	24/0.20	0.6	16.2	350
4×1.0	32/0.20	0.6	8.8	140
7×1.0	32/0.20	0.6	11.6	226
3×1.5	32/0.25	0.7	8.6	124
5×1.5	32/0.25	0.7	10.9	208
9×1.5	30/0.25	0.7	14.9	409
16×1.5	30/0.25	0.7	17.5	560
6×2×1.5	30/0.25	0.7	18.8	540
2×2.5	50/0.25	0.7	9.6	160
4×2.5	50/0.25	0.7	11.3	220
7×2.5	50/0.25	0.7	14.8	400
3×4	56/0.30	0.7	11.8	260
5×4	56/0.30	0.7	14.7	440
3×6	84/0.30	0.7	13.5	370
5×6	84/0.30	0.7	17.4	620
3×10	80/0.40	0.7	17.1	580
4×10	80/0.40	0.7	19.2	750
5×10	80/0.40	0.7	21.0	850
3×16	126/0.40	0.7	20.5	820
2×25	196/0.40	0.9	22.5	990
3×35	276/0.40	0.9	27.9	1600
6×35	276/0.40	0.9	39.7	3350
2×50	396/0.40	1.0	29.5	1760


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature 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

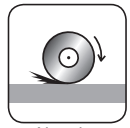

IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant

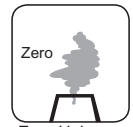

Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

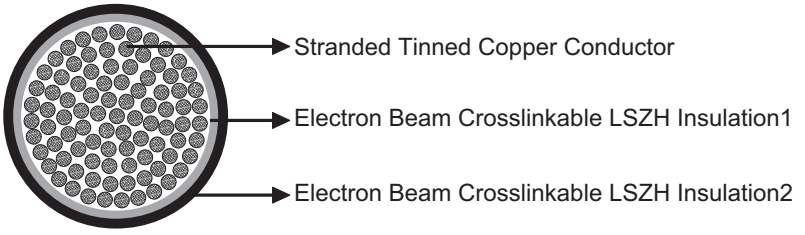
3GKW-DW 0.6/1KV Dual Wall Single Core

↘ Applications

Single 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 -1a
- 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.

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.5	0.6	0.75	1	1.2	1.5	2.0	2.5	3	4.0
AWG			20		18	16		14		12	
Maximum Conductor Resistance	Ω/km	40.1	31.1	26.7	20.0	15.5	13.7	10.5	8.21	6.56	5.09
Voltage Rating	KV	0.6/1									

↘ Mechanical and Thermal Properties

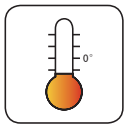
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

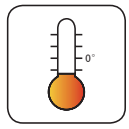
↘ Dimensions and Weight

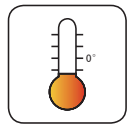
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×0.5	16/0.20	0.2	1.32	5.5
1×0.6	19/0.20	0.2	1.40	6.5
1×0.75	24/0.20	0.2	1.52	8
1×1.0	32/0.20	0.2	1.65	10
1×1.2	19/0.28	0.2	1.83	12
1×1.5	30/0.25	0.3	2.04	15
1×2.0	37/0.25	0.3	2.29	19
1×2.5	50/0.25	0.3	2.60	24
1×3	37/0.32	0.3	2.70	29
1×4	56/0.30	0.4	3.21	39


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature Resistant


Corona Resistant

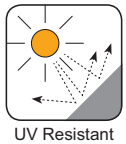

Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266


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


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

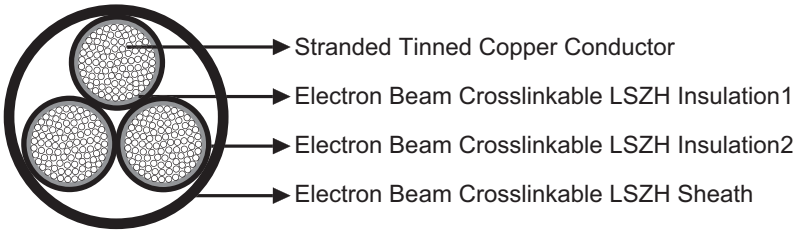
3GKW-DW/S 0.6/1KV Dual Wall Multicore

↘ 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 -1a
- 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.
- **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	0.6/1				

↘ Mechanical and Thermal Properties

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

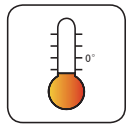
↘ Dimensions and Weight

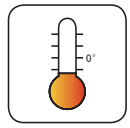
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×0.5	16/0.20	0.2	4.1	24
3×0.5	16/0.20	0.2	4.6	36
5×0.5	16/0.20	0.2	5.0	43
9×0.5	16/0.20	0.2	6.6	64
12×0.5	16/0.20	0.2	6.9	89
16×0.5	16/0.20	0.2	7.8	115
25×0.5	16/0.20	0.2	9.5	170
30×0.5	16/0.20	0.2	10.0	204
2×2×0.5	16/0.20	0.2	5.8	50
2×0.75	24/0.20	0.2	4.4	32
4×0.75	24/0.20	0.2	5.0	49
9×0.75	24/0.20	0.2	7.7	106
14×0.75	24/0.20	0.2	8.4	140
27×0.75	24/0.20	0.2	11.1	268
36×0.75	24/0.20	0.2	12.8	360
3×1.0	32/0.20	0.2	5.0	45
6×1.0	32/0.20	0.2	6.6	88
14×1.0	32/0.20	0.2	9.1	174
20×1.0	32/0.20	0.2	11.2	255
50×1.0	32/0.20	0.2	16.6	620
2×1.5	30/0.25	0.3	5.4	55
5×1.5	30/0.25	0.3	7.1	110
7×1.5	30/0.25	0.3	8.2	150
10×1.5	30/0.25	0.3	9.9	170
18×1.5	30/0.25	0.3	12.4	350
30×1.5	30/0.25	0.3	15.6	560
50×1.5	30/0.25	0.3	20.0	868
3×2.5	50/0.25	0.3	7.0	105
6×2.5	50/0.25	0.3	9.4	200
12×2.5	50/0.25	0.3	12.6	360
18×2.5	50/0.25	0.3	15.3	545
24×2.5	50/0.25	0.3	17.8	695
30×2.5	50/0.25	0.3	19.1	870
36×2.5	50/0.25	0.3	21.0	1050


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature Resistant


Corona Resistant


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

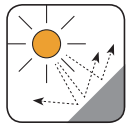

Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1


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


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant

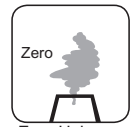

Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

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

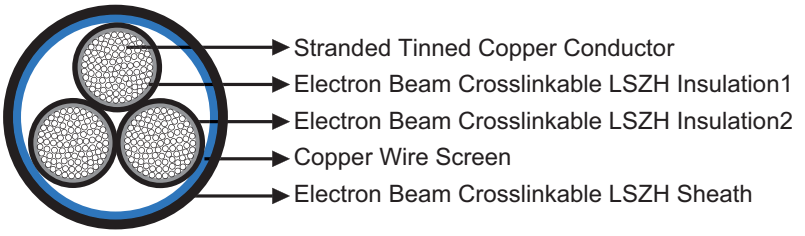
↘ Applications

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 -1a
- 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℃

Nominal Conductor Cross Section	mm²	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℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

↘ Dimensions and Weight

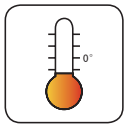
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×2×0.25	19/0.13	0.2	5.7	48
3×2×0.25	19/0.13	0.2	6.1	57
4×2×0.25	19/0.13	0.2	7.0	72
7×2×0.25	19/0.13	0.2	7.8	92
25×0.25	19/0.13	0.2	8.9	139
2×0.5	16/0.20	0.2	4.3	34
3×0.5	16/0.20	0.2	4.5	40
4×0.5	16/0.20	0.2	4.8	47
5×0.5	16/0.20	0.2	5.4	58
6×0.5	16/0.20	0.2	5.9	70
7×0.5	16/0.20	0.2	6.3	80
8×0.5	16/0.20	0.2	6.8	86
9×0.5	16/0.20	0.2	7.2	95
10×0.5	16/0.20	0.2	7.2	101
12×0.5	16/0.20	0.2	7.4	110
15×0.5	16/0.20	0.2	8.3	135
16×0.5	16/0.20	0.2	8.5	142
18×0.5	16/0.20	0.2	8.9	162
20×0.5	16/0.20	0.2	9.3	183
22×0.5	16/0.20	0.2	9.9	195
25×0.5	16/0.20	0.2	10.3	213
27×0.5	16/0.20	0.2	10.5	231
30×0.5	16/0.20	0.2	11.3	265
36×0.5	16/0.20	0.2	12.1	301
42×0.5	16/0.20	0.2	12.9	359
48×0.5	16/0.20	0.2	13.6	410
50×0.5	16/0.20	0.2	14.2	430
2×2×0.5	16/0.20	0.2	6.4	69
3×2×0.5	16/0.20	0.2	6.7	80
4×2×0.5	16/0.20	0.2	7.4	95
5×2×0.5	16/0.20	0.2	9.1	136
6×2×0.5	16/0.20	0.2	9.2	148
8×2×0.5	16/0.20	0.2	9.7	155
10×2×0.5	16/0.20	0.2	10.9	200
12×2×0.5	16/0.20	0.2	12.1	239
15×2×0.5	16/0.20	0.2	13.0	300
16×2×0.5	16/0.20	0.2	13.2	320
20×2×0.5	16/0.20	0.2	14.4	360
2×3×0.5	16/0.20	0.2	7.3	90
2×0.75	24/0.20	0.2	4.8	40
3×0.75	24/0.20	0.2	5.0	50
4×0.75	24/0.20	0.2	5.5	62
5×0.75	24/0.20	0.2	6.1	75

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
6×0.75	24/0.20	0.2	6.6	85
7×0.75	24/0.20	0.2	7.2	100
8×0.75	24/0.20	0.2	7.7	113
10×0.75	24/0.20	0.2	8.1	130
12×0.75	24/0.20	0.2	8.4	150
14×0.75	24/0.20	0.2	9.1	169
16×0.75	24/0.20	0.2	9.7	206
18×0.75	24/0.20	0.2	10.1	230
20×0.75	24/0.20	0.2	11.1	256
24×0.75	24/0.20	0.2	12.0	294
25×0.75	24/0.20	0.2	12.3	300
2×2×0.75	24/0.20	0.2	7.1	85
3×2×0.75	24/0.20	0.2	7.6	109
4×2×0.75	24/0.20	0.2	9.9	143
5×2×0.75	24/0.20	0.2	10.7	182
6×2×0.75	24/0.20	0.2	11.9	226
7×2×0.75	24/0.20	0.2	13.2	279
8×2×0.75	24/0.20	0.2	13.4	291
10×2×0.75	24/0.20	0.2	14.8	333
3×3×0.75	24/0.20	0.2	8.9	151
5×4×0.75	24/0.20	0.2	12.8	288
2×1.0	32/0.20	0.2	5.0	50
3×1.0	32/0.20	0.2	5.5	60
4×1.0	32/0.20	0.2	5.8	72
5×1.0	32/0.20	0.2	6.6	88
6×1.0	32/0.20	0.2	7.3	114
7×1.0	32/0.20	0.2	7.9	133
8×1.0	32/0.20	0.2	8.5	150
9×1.0	32/0.20	0.2	8.7	160
10×1.0	32/0.20	0.2	8.9	168
12×1.0	32/0.20	0.2	9.2	188
16×1.0	32/0.20	0.2	10.5	250
18×1.0	32/0.20	0.2	11.2	275
25×1.0	32/0.20	0.2	12.7	355
27×1.0	32/0.20	0.2	13.3	395
30×1.0	32/0.20	0.2	13.8	450
36×1.0	32/0.20	0.2	15.1	530
42×1.0	32/0.20	0.2	16.3	604
50×1.0	32/0.20	0.2	17.8	690
2×2×1.0	32/0.20	0.2	7.8	107
4×2×1.0	32/0.20	0.2	9.4	128
6×2×1.0	32/0.20	0.2	11.6	239
12×2×1.0	32/0.20	0.2	14.3	400
4×3×1.0	32/0.20	0.2	11.5	230
3×4×1.0	32/0.20	0.2	11.3	245

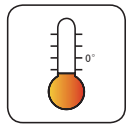
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
4×4×1.0	32/0.20	0.2	12.5	265
2×1.5	30/0.25	0.3	5.8	70
3×1.5	30/0.25	0.3	6.1	81
4×1.5	30/0.25	0.3	6.7	100
5×1.5	30/0.25	0.3	7.7	134
6×1.5	30/0.25	0.3	8.3	153
7×1.5	30/0.25	0.3	9.1	184
8×1.5	30/0.25	0.3	10.3	222
9×1.5	30/0.25	0.3	10.4	234
10×1.5	30/0.25	0.3	10.5	240
12×1.5	30/0.25	0.3	10.9	268
16×1.5	30/0.25	0.3	12.5	364
18×1.5	30/0.25	0.3	13.2	405
25×1.5	30/0.25	0.3	15.8	562
48×1.5	30/0.25	0.3	20.7	988
2×2×1.5	30/0.25	0.3	9.2	153
3×2×1.5	30/0.25	0.3	9.8	205
7×2×1.5	30/0.25	0.3	12.6	330
2×2.5	50/0.25	0.3	7.0	105
3×2.5	50/0.25	0.3	7.6	130
4×2.5	50/0.25	0.3	8.4	170
5×2.5	50/0.25	0.3	9.4	190
6×2.5	50/0.25	0.3	10.3	225
7×2.5	50/0.25	0.3	11.4	270
8×2.5	50/0.25	0.3	12.6	343
10×2.5	50/0.25	0.3	13.2	370
12×2.5	50/0.25	0.3	13.6	420
16×2.5	50/0.25	0.3	15.6	560
18×2.5	50/0.25	0.3	16.6	620
25×2.5	50/0.25	0.3	19.3	834
27×2.5	50/0.25	0.3	20.5	870
48×2.5	50/0.25	0.3	25.6	1560


Impact Resistant

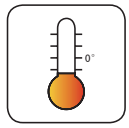

Highly Flexible



Cold Resistant



Soldering Heat Resistant



Low Temperature Resistant


Corona Resistant

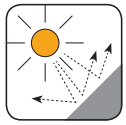

Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266

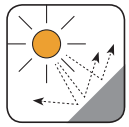

Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1


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

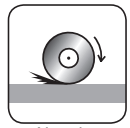

IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant

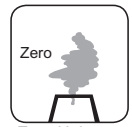

Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

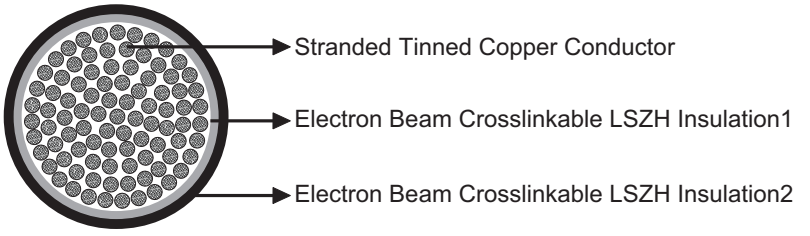
4GKW-AXplus-DW 1.8/3KV
Dual Wall Single Core

↘ Applications

Single 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 -1a
- 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.

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	1.0	1.5	2.5	4.0	6.0	10	16	25	35	50
Maximum Conductor Resistance	Ω/km	20.0	13.7	8.21	5.09	3.39	1.95	1.24	0.795	0.565	0.393
Voltage Rating	KV	1.8/3.0									

Nominal Conductor Cross Section	mm²	70	95	120	150	185	240	300	400
Maximum Conductor Resistance	Ω/km	0.277	0.21	0.164	0.132	0.108	0.0817	0.0654	0.0495
Voltage Rating	KV	1.8/3.0							

↘ Mechanical and Thermal Properties

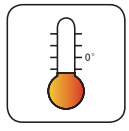
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

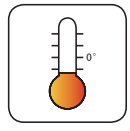
↘ Dimensions and Weight

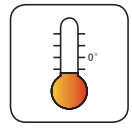
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×1.0	32/0.20	0.7	2.8	17
1×1.5	30/0.25	0.8	3.2	23
1×2.0	32/0.20	0.9	3.55	28
1×2.5	50/0.25	0.9	3.70	34
1×4.0	56/0.30	1.0	4.45	53
1×6.0	84/0.30	1.1	5.05	74
1×10	80/0.40	1.2	6.35	118
1×16	126/0.40	1.5	8.3	180
1×25	196/0.40	1.8	10.2	274
1×35	276/0.40	2.0	11.4	379
1×50	396/0.40	2.2	13.6	550
1×70	360/0.50	2.1	15.6	730
1×95	475/0.50	2.3	17.3	940
1×120	608/0.50	2.4	19.6	1180
1×150	756/0.50	2.6	21.9	1510
1×185	925/0.50	2.8	23.8	1802
1×240	1221/0.50	2.9	26.8	2290
1×300	1525/0.50	3.0	29.7	2928
1×400	2013/0.50	3.4	35.8	4040


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature Resistant


Corona Resistant

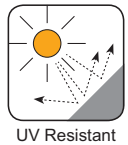

Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266


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


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

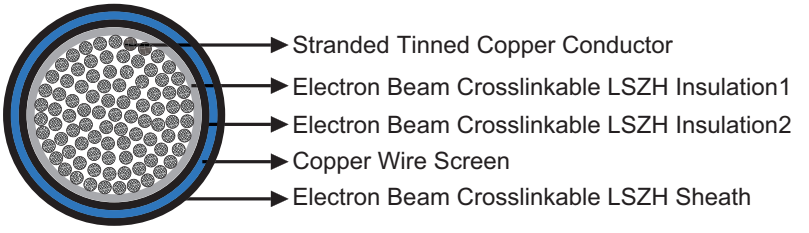
4GKW-AXplus-DW EMC 1.8/3KV
Dual Wall Screened Single Core

↘ Applications

Single 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 -1a
- 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℃

Nominal Conductor Cross Section	mm²	1.5	2.5	4.0	6.0	10	16	25	35	50
Maximum Conductor Resistance	Ω/km	13.7	8.21	5.09	3.39	1.95	1.24	0.795	0.565	0.393
Voltage Rating	KV	1.8/3								

Nominal Conductor Cross Section	mm²	70	95	120	150	185	240	300	400
Maximum Conductor Resistance	Ω/km	0.277	0.21	0.164	0.132	0.108	0.0817	0.0654	0.0495
Voltage Rating	KV	1.8/3							

↘ Mechanical and Thermal Properties

Minimum Bending Radius: 4xOD (Static); 8xOD (Flexing)

Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)

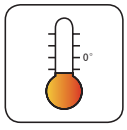
Short Circuit Temperature: +280℃

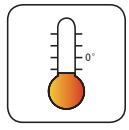
↘ Dimensions and Weight

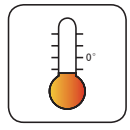
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×1.0	32/0.20	0.7	4.60	38
1×1.5	30/0.25	0.8	5.20	47
1×2.5	50/0.25	0.9	5.50	63
1×4	56/0.30	1.0	6.70	89
1×6	84/0.30	1.1	7.30	123
1×10	80/0.40	1.2	9.00	178
1×16	126/0.40	1.5	11.2	280
1×25	196/0.40	1.8	12.5	371
1×35	276/0.40	2.0	14.0	492
1×50	396/0.40	2.2	16.7	693
1×70	360/0.50	2.1	18.6	913
1×95	475/0.50	2.3	20.3	1160
1×120	608/0.50	2.4	23.4	1441
1×150	756/0.50	2.6	25.1	1730
1×185	925/0.50	2.8	27.8	2088
1×240	1221/0.50	2.9	30.2	2908
1×300	1525/0.50	3.0	34.2	3375
1×400	2013/0.50	3.4	37.1	4250


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature Resistant


Corona Resistant

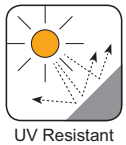

Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266


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


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

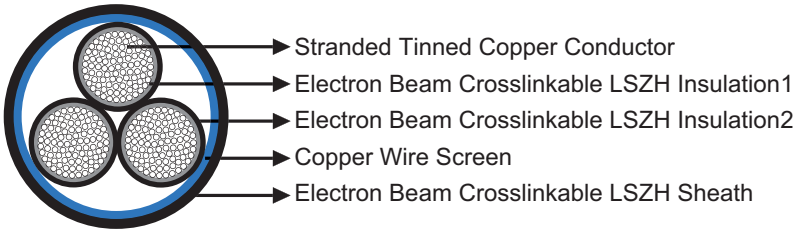
4GKW-AXplus-DW/S EMC 1.8/3KV
Dual Wall Screened Multicore

↘ 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 -1a
- 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℃

Nominal Conductor Cross Section	mm²	1.5	2.5	4.0	10	16	25	35
Maximum Conductor Resistance	Ω/km	13.7	8.21	5.09	1.95	1.24	0.795	0.565
Voltage Rating	KV	1.8/3						

↘ Mechanical and Thermal Properties

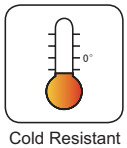
Minimum Bending Radius: 4xOD (Static); 8xOD (Flexing)
Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

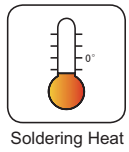
↘ Dimensions and Weight

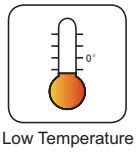
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×1.5	30/0.25	0.8	9.2	135
3×1.5	30/0.25	0.8	10.0	164
6×1.5	30/0.25	0.8	13.7	315
3×2.5	30/0.25	0.9	11.4	225
4×4	56/0.30	1.0	15.3	427
3×10	80/0.40	1.2	18.2	648
3×16	126/0.40	1.5	23.1	900
3×25	196/0.40	1.8	28.4	1520
4×25	196/0.40	1.8	34.0	1869
2×35	276/0.40	2.0	29.7	1580
3×35	276/0.40	2.0	31.6	1970
4×35	276/0.40	2.0	37.0	2102


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature Resistant


Corona Resistant

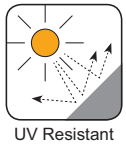

Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266


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


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

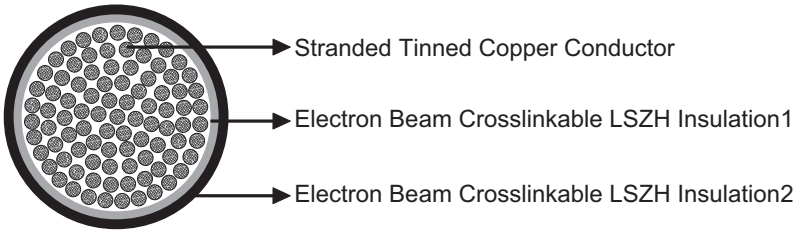
9GKW-AXplus-DW 3.6/6KV
Dual Wall Single Core

↘ Applications

Single 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 -1a
- 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.

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	1.5	2.5	4.0	6.0	10	16	25	35	50
Maximum Conductor Resistance	Ω/km	13.7	8.21	5.09	3.39	1.95	1.24	0.795	0.565	0.393
Voltage Rating	KV	3.6/6								

Nominal Conductor Cross Section	mm²	70	95	120	150	185	240	300	400
Maximum Conductor Resistance	Ω/km	0.277	0.21	0.164	0.132	0.108	0.0817	0.0654	0.0495
Voltage Rating	KV	3.6/6							

↘ Mechanical and Thermal Properties

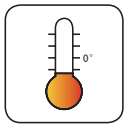
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

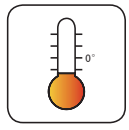
↘ Dimensions and Weight

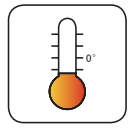
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×1.5	30/0.25	1.4	4.4	34
1×2.5	50/0.25	1.5	4.9	47
1×4	56/0.30	1.6	5.7	68
1×6	84/0.30	1.7	6.3	88
1×10	80/0.40	1.8	7.5	140
1×16	126/0.40	2.1	9.4	205
1×25	196/0.40	2.2	10.9	297
1×35	276/0.40	2.4	12.2	410
1×50	396/0.40	2.6	14.5	570
1×70	360/0.50	2.6	16.5	760
1×95	475/0.50	2.9	18.5	980
1×120	608/0.50	3.0	20.3	1236
1×150	756/0.50	3.2	23.1	1570
1×185	925/0.50	3.4	24.6	1848
1×240	1221/0.50	3.5	27.6	2400
1×300	1525/0.50	3.6	30.9	2970
1×400	2013/0.50	3.7	36.5	4090


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature Resistant


Corona Resistant

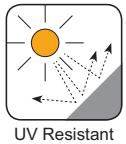

Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266


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


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

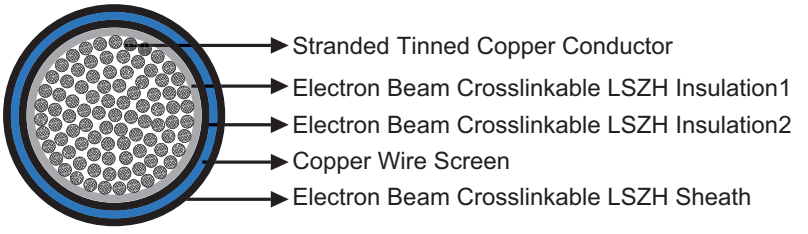
9GKW-AXplus-DW EMC 3.6/6KV
Dual Wall Screened Single Core

↘ Applications

Single 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 -1a
- 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℃

Nominal Conductor Cross Section	mm²	1.5	2.5	4.0	6.0	10	16	25	35	50
Maximum Conductor Resistance	Ω/km	13.7	8.21	5.09	3.39	1.95	1.24	0.795	0.565	0.393
Voltage Rating	KV	3.6/6								

Nominal Conductor Cross Section	mm²	70	95	120	150	185	240	300	400
Maximum Conductor Resistance	Ω/km	0.277	0.21	0.164	0.132	0.108	0.0817	0.0654	0.0495
Voltage Rating	KV	3.6/6							

↘ Mechanical and Thermal Properties

Minimum Bending Radius: 4xOD (Static); 8xOD (Flexing)

Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)

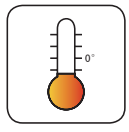
Short Circuit Temperature: +280℃

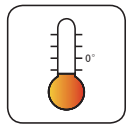
↘ Dimensions and Weight

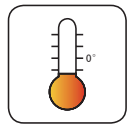
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×1.5	30/0.25	1.4	6.3	72
1×2.5	50/0.25	1.5	6.9	89
1×4	56/0.30	1.6	7.8	119
1×6	84/0.30	1.7	9.1	150
1×10	80/0.40	1.8	10.4	220
1×16	126/0.40	2.1	12.4	330
1×25	196/0.40	2.2	14.3	390
1×35	276/0.40	2.4	15.7	550
1×50	396/0.40	2.6	17.4	733
1×70	360/0.50	2.6	19.5	970
1×95	475/0.50	2.9	22.0	1216
1×120	608/0.50	3.0	24.7	1510
1×150	756/0.50	3.2	27.1	1900
1×185	925/0.50	3.4	29.1	2195
1×240	1221/0.50	3.5	32.3	2830
1×300	1525/0.50	3.6	35.6	3520
1×400	2013/0.50	3.7	38.3	4364


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature Resistant


Corona Resistant

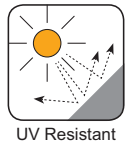

Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266


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


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant

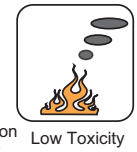

UV Resistant


Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


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

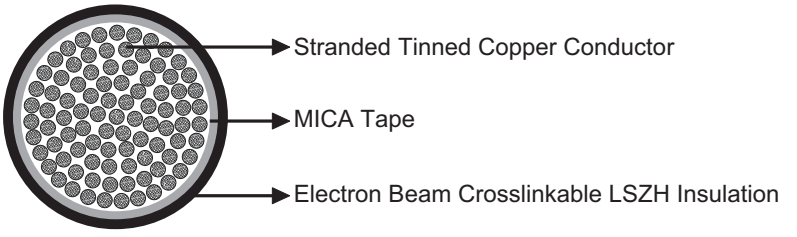
GKW-RW FE180 300/500V
Thin Wall Single Core

↘ Applications

Single 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 -1a
- DIN 5510-2 1-4
- NFF 16-101 F0



↘ Construction

- **Conductors:** Circular Class 5 stranded tinned copper to IEC60228/VDE 0295.
- **Flame Barrier:** MICA tape.
- **Insulation:** 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

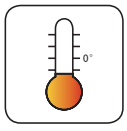
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -40℃ ~+120℃ (Static); -35℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

↘ Dimensions and Weight

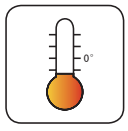
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×0.5	16/0.2	0.3	2.00	8
1×0.75	24/0.2	0.3	2.25	10
1×1.0	32/0.2	0.35	2.50	14
1×1.5	30/0.25	0.35	2.80	18
1×2.5	50/0.25	0.35	3.20	29


Impact Resistant


Highly Flexible



Cold Resistant



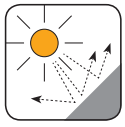
Soldering Heat Resistant


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

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


IRM 902 Mineral Oil Resistant


UV Resistant

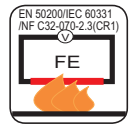

Ozone Resistant


Acid and Alkali Resistant


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


Low Toxicity


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



Insulation Integrity FE180

3GKW-SW FE180 0.6/1KV
Standard Wall Single Core

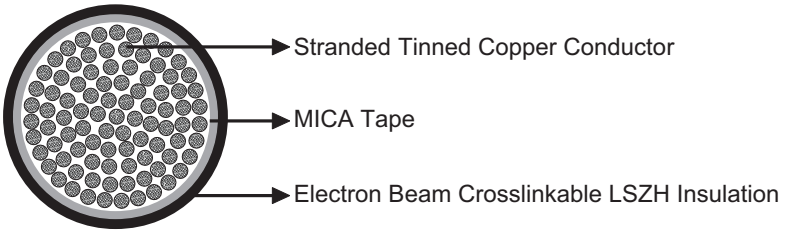
↘ Applications

Single 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 -1a
- DIN 5510-2 1-4
- NFF 16-101 F0

↘ Construction



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

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	1	1.5	2.5	4.0	6.0	10	16
Maximum Conductor Resistance	Ω/km	20.0	13.7	8.21	5.09	3.39	1.95	1.24
Voltage Rating	KV	0.6/1						

Nominal Conductor Cross Section	mm²	25	35	50	70	95	150
Maximum Conductor Resistance	Ω/km	0.795	0.565	0.393	0.277	0.21	0.132
Voltage Rating	KV	0.6/1					

↘ Mechanical and Thermal Properties

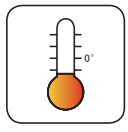
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -40℃ ~+120℃ (Static); -35℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

↘ Dimensions and Weight

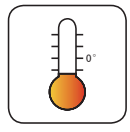
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×1.0	32/0.2	0.55	3.15	19
1×1.5	30/0.25	0.55	3.40	24
1×2.5	50/0.25	0.60	4.05	36.6
1×4	56/0.3	0.65	4.60	52.5
1×6	84/0.3	0.70	5.30	73
1×10	80/0.4	0.80	6.35	122
1×16	126/0.4	0.90	8.15	182
1×25	196/0.40	1.0	9.65	263
1×35	276/0.40	1.1	10.80	365
1×50	396/0.40	1.2	12.80	530
1×70	360/0.50	1.3	15.10	730
1×95	475/0.50	1.4	17.00	930
1×150	756/0.50	1.6	21.30	1450


Impact Resistant


Highly Flexible



Cold Resistant



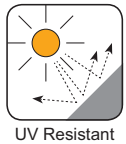
Soldering Heat Resistant


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

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


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali Resistant


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


Low Toxicity


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

Insulation Integrity FE180

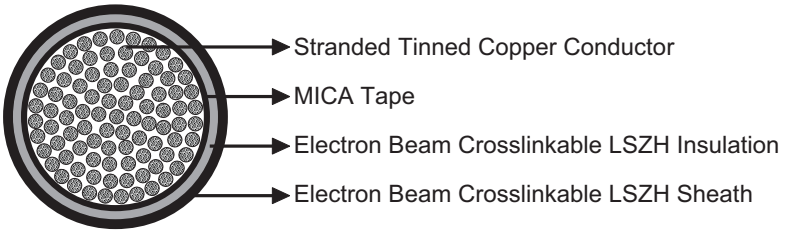
4GKW-AXplus-DW FE180 1.8/3KV
Dual Wall Single Core

↘ Applications

Single 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 -1a
- DIN 5510-2 1-4
- NFF 16-101 F0



↘ Construction

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

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	1.5	2.5	4.0	6.0	10	16	25	35	50
Maximum Conductor Resistance	Ω/km	13.7	8.21	5.09	3.39	1.95	1.24	0.795	0.565	0.393
Voltage Rating	KV	1.8/3.0								

Nominal Conductor Cross Section	mm²	70	95	120	150	185	240
Maximum Conductor Resistance	Ω/km	0.277	0.21	0.164	0.132	0.108	0.0817
Voltage Rating	KV	1.8/3.0					

↘ Mechanical and Thermal Properties

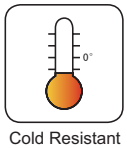
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

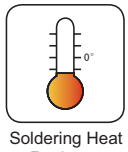
↘ Dimensions and Weight

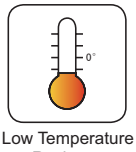
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×1.5	30/0.25	1.05	4.90	38
1×2.5	50/0.25	1.15	5.35	50
1×4	56/0.30	1.25	6.10	88
1×6	84/0.30	1.30	7.00	93
1×10	80/0.40	1.30	8.10	142
1×16	126/0.40	1.15	9.30	210
1×25	196/0.40	1.50	10.8	290
1×35	276/0.40	1.50	12.1	400
1×50	396/0.40	1.60	13.8	561
1×70	360/0.50	1.70	16.2	760
1×95	475/0.50	1.90	18.0	980
1×120	608/0.50	1.60	20.2	1212
1×150	756/0.50	2.20	22.7	1520
1×185	925/0.50	2.40	24.6	1830
1×240	1221/0.50	2.50	27.6	2411


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature Resistant


Acid and Alkali Resistant


IRM 903 Fuel Oil Resistant

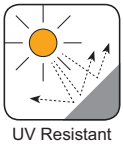

IRM 902 Mineral Oil Resistant


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

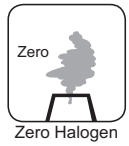

UV Resistant


Ozone Resistant

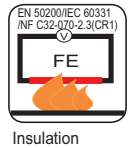

Abrasion Resistant


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



Insulation Integrity FE180

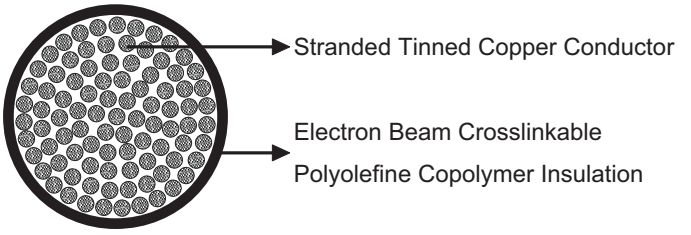
FRA 145 Single Core

↘ Applications

Single core cable with improved fire performance and very high resistance to temperature designed for internal wiring in lamps, heating appliances and distribution boxes in apparatus, mechanical and plant engineering, etc. Used for laying in tubes, surface wiring, direct in plaster or underneath it, as well in conduits.

↘ Standard

- IEC 60754-1, EN 50267-2-1 (halogen free)
- IEC 60754-2, EN 50267-2-2 (no corrosive gases)
- NES 02-713, NFC 20-454 (no toxic gases)
- IEC 61034, EN 50268-2 (low smoke density)
- IEC 60332-1, EN 50265-2-1 (flame retardant)
- IEC 60332-3, EN 50266-2, NF C 32-070 (non-flame propagating)
- DIN 51900 (low fire load)



↘ Construction

- **Conductors:** Class 5 stranded tinned copper to IEC60228/VDE 0295.
- **Insulation:** Electron beam crosslinkable polyolefine copolymer.
- **Colour Code:** Various colours on request.

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.25	0.34	0.50	0.75	1.0	1.5	2.5	4.0	6.0	10	16
Maximum Conductor Resistance	Ω/km	85.9	57.2	40.1	26.7	20.0	13.7	8.21	5.09	3.39	1.95	1.24
Voltage Rating	V	300/500V (≤1mm²); 450/750V (≥1.5mm²)										

Nominal Conductor Cross Section	mm²	25	35	50	70	95	120	150	185	240	300
Maximum Conductor Resistance	Ω/km	0.795	0.565	0.393	0.277	0.21	0.164	0.132	0.108	0.0817	0.0654
Voltage Rating	V	300/500V (≤1mm²); 450/750V (≥1.5mm²)									

↘ Mechanical and Thermal Properties

Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)

Temperature Range: -55℃ ~+145℃ (Static); -40℃ ~+120℃ (Flexing)

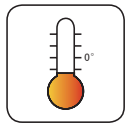
Short Circuit Temperature: +280℃

↘ Dimensions and Weight

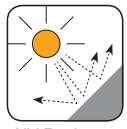
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×0.25	19/0.13	0.5	1.5	5
1×0.34	19/0.15	0.5	1.7	6
1×0.50	16/0.20	0.5	1.8	8
1×0.75	24/0.20	0.6	2.2	11
1×1.0	30/0.20	0.6	2.5	14
1×1.5	30/0.25	0.6	2.7	21
1×2.5	50/0.25	0.7	3.4	33
1×4.0	56/0.30	0.8	4.1	48
1×6.0	84/0.30	0.9	5.2	67
1×10.0	80/0.40	1.0	6.4	112
1×16.0	126/0.40	1.1	7.5	172
1×25.0	196/0.40	1.3	9.2	262
1×35.0	276/0.40	1.3	10.4	362
1×50.0	396/0.40	1.6	12.5	512
1×70.0	360/0.50	1.6	14.7	710
1×95.0	475/0.50	1.8	16.4	937
1×120.0	608/0.50	1.8	18.2	1159
1×150.0	756/0.50	1.9	20.8	1447
1×185.0	925/0.50	2.0	22.5	1790
1×240.0	1221/0.50	2.2	25.7	2318
1×300.0	1525/0.50	2.4	28.3	2897


Impact Resistant


Highly Flexible



Weather Resistant


UV Resistant

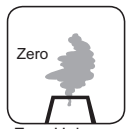

Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266


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 Toxicity


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



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

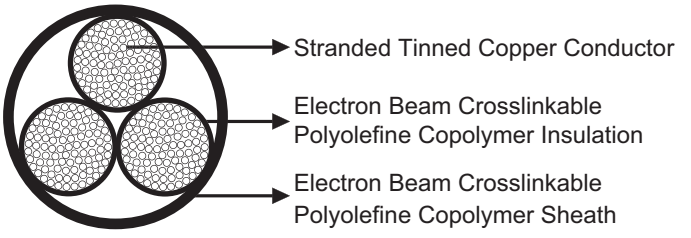
FRA 145/S Multicore

↘ Applications

Multicore cable with improved fire performance and very high resistance to temperature designed for internal wiring in lamps, heating appliances and distribution boxes in apparatus, mechanical and plant engineering, etc. Used for fixed and flexible application in dry, humid and wet rooms.

↘ Standard

- IEC 60754-1, EN 50267-2-1 (halogen free)
- IEC 60754-2, EN 50267-2-2 (no corrosive gases)
- NES 02-713, NFC 20-454 (no toxic gases)
- IEC 61034, EN 50268-2 (low smoke density)
- IEC 60332-1, EN 50265-2-1 (flame retardant)
- IEC 60332-3, EN 50266-2, NF C 32-070 (non-flame propagating)
- DIN 51900 (low fire load)



↘ Construction

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

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.50	0.75	1.0	1.5	2.5	4.0	6.0
Maximum Conductor Resistance	Ω/km	40.1	26.7	20.0	13.7	8.21	5.09	3.39
Voltage Rating	V	300/500V (≤1mm²); 450/750V (≥1.5mm²)						

↘ Mechanical and Thermal Properties

Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -55℃ ~+145℃ (Static); -40℃ ~+120℃ (Flexing)
Short Circuit Temperature: +280℃

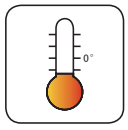
↘ Dimensions and Weight

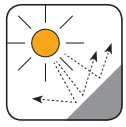
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×0.5	16/0.20	0.5	5.1	38
3×0.5	16/0.20	0.5	5.5	46
4×0.5	16/0.20	0.5	5.9	55
5×0.5	16/0.20	0.5	6.7	68
6×0.5	16/0.20	0.5	7.1	77
7×0.5	16/0.20	0.5	7.8	93
8×0.5	16/0.20	0.5	8.6	102
10×0.5	16/0.20	0.5	9.4	130
12×0.5	16/0.20	0.5	9.4	125
14×0.5	16/0.20	0.5	10.0	145
16×0.5	16/0.20	0.5	10.7	166
2×0.75	24/0.20	0.6	5.9	52
3×0.75	24/0.20	0.6	6.2	61
4×0.75	24/0.20	0.6	6.9	75
5×0.75	24/0.20	0.6	7.7	94
6×0.75	24/0.20	0.6	8.3	107
7×0.75	24/0.20	0.6	9.1	127
8×0.75	24/0.20	0.6	10.2	144
10×0.75	24/0.20	0.6	11.1	186
14×0.75	24/0.20	0.6	11.7	203
16×0.75	24/0.20	0.6	12.5	233
1×1	30/0.20	0.6	3.9	25
2×1	30/0.20	0.6	6.3	50
3×1	30/0.20	0.6	6.8	67
4×1	30/0.20	0.6	7.4	87
5×1	30/0.20	0.6	8.4	107
6×1	30/0.20	0.6	8.9	124
7×1	30/0.20	0.6	10.2	152
8×1	30/0.20	0.6	11.0	177
10×1	30/0.20	0.6	12.1	222
14×1	30/0.20	0.6	12.7	252
2×1.5	30/0.25	0.6	7.8	71
3×1.5	30/0.25	0.6	8.3	96
4×1.5	30/0.25	0.6	9.1	123
5×1.5	30/0.25	0.6	10.1	156
7×1.5	30/0.25	0.6	12.1	224
10×1.5	30/0.25	0.6	15.0	314
12×1.5	30/0.25	0.6	15.0	346
16×1.5	30/0.25	0.6	16.8	452
25×1.5	30/0.25	0.6	21.7	702
2×2.5	50/0.25	0.7	9.1	102

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
3×2.5	50/0.25	0.7	9.9	145
4×2.5	50/0.25	0.7	10.9	189
5×2.5	50/0.25	0.7	12.2	235
7×2.5	50/0.25	0.7	14.6	344
4×4	56/0.30	0.8	12.8	268
5×4	56/0.30	0.8	14.2	334
5×6	84/0.30	0.9	15.8	494


Impact Resistant


Highly Flexible


Weather Resistant


UV 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 Toxicity


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

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

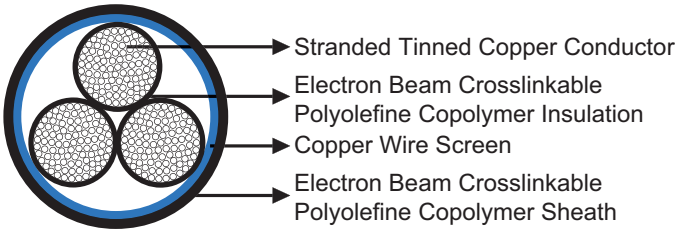
FRA 145/S EMC Screened Multicore

↘ Applications

Multicore cable with improved fire performance and very high resistance to temperature designed for internal wiring in lamps, heating appliances and distribution boxes in apparatus, mechanical and plant engineering, etc. Used for fixed and flexible application in dry, humid and wet rooms.

↘ Standard

- IEC 60754-1, EN 50267-2-1 (halogen free)
- IEC 60754-2, EN 50267-2-2 (no corrosive gases)
- NES 02-713, NFC 20-454 (no toxic gases)
- IEC 61034, EN 50268-2 (low smoke density)
- IEC 60332-1, EN 50265-2-1 (flame retardant)
- IEC 60332-3, EN 50266-2, NF C 32-070 (non-flame propagating)
- DIN 51900 (low fire load)



↘ Construction

- **Conductors:** Class 5 stranded tinned copper to IEC60228/VDE 0295.
- **Insulation:** Electron beam crosslinkable polyolefine copolymer.
- **Screen:** Copper wire screen.
- **Sheath:** Electron beam crosslinkable polyolefine copolymer.

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.50	0.75	1.0	1.5	2.5	4.0
Maximum Conductor Resistance	Ω/km	40.1	26.7	20.0	13.7	8.21	5.09
Voltage Rating	V	300/500V (≤1mm²); 450/750V (≥1.5mm²)					

↘ Mechanical and Thermal Properties

Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)

Temperature Range: -55℃ ~+145℃ (Static); -40℃ ~+120℃ (Flexing)

Short Circuit Temperature: +280℃

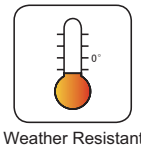
↘ Dimensions and Weight

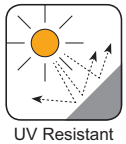
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×0.5	16/0.20	0.5	3.7	23
2×0.5	16/0.20	0.5	5.6	45
3×0.5	16/0.20	0.5	6.1	59
4×0.5	16/0.20	0.5	6.7	72
5×0.5	16/0.20	0.5	7.3	86
6×0.5	16/0.20	0.5	7.9	102
7×0.5	16/0.20	0.5	8.4	118
8×0.5	16/0.20	0.5	9.0	133
10×0.5	16/0.20	0.5	10.0	157
12×0.5	16/0.20	0.5	10.0	164
1×0.75	24/0.20	0.6	4.0	28
2×0.75	24/0.20	0.6	6.7	66
3×0.75	24/0.20	0.6	7.1	78
4×0.75	24/0.20	0.6	7.7	94
5×0.75	24/0.20	0.6	8.5	113
6×0.75	24/0.20	0.6	8.9	132
7×0.75	24/0.20	0.6	9.9	158
8×0.75	24/0.20	0.6	10.6	181
10×0.75	24/0.20	0.6	11.5	209
12×0.75	24/0.20	0.6	11.5	219
14×0.75	24/0.20	0.6	12.2	251
16×0.75	24/0.20	0.6	12.9	279
19×0.75	24/0.20	0.6	14.5	347
21×0.75	24/0.20	0.6	15.3	385
1×1	30/0.20	0.6	4.2	33
2×1	30/0.20	0.6	7.2	79
3×1	30/0.20	0.6	7.7	89
4×1	30/0.20	0.6	8.3	113
5×1	30/0.20	0.6	9.0	134
6×1	30/0.20	0.6	9.5	156
7×1	30/0.20	0.6	10.9	187
8×1	30/0.20	0.6	11.4	218
10×1	30/0.20	0.6	12.5	253
12×1	30/0.20	0.6	12.5	266

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
1×1.5	30/0.25	0.6	4.8	43
2×1.5	30/0.25	0.6	8.4	105
3×1.5	30/0.25	0.6	8.9	119
4×1.5	30/0.25	0.6	9.9	163
5×1.5	30/0.25	0.6	10.7	183
6×1.5	30/0.25	0.6	11.5	219
7×1.5	30/0.25	0.6	12.7	273
8×1.5	30/0.25	0.6	13.7	305
10×1.5	30/0.25	0.6	15.0	309
2×2.5	50/0.25	0.7	9.9	157
3×2.5	50/0.25	0.7	10.5	198
4×2.5	50/0.25	0.7	11.5	236
5×2.5	50/0.25	0.7	12.8	287
7×2.5	50/0.25	0.7	15.5	430
4×4	56/0.30	0.8	13.2	317
5×4	56/0.30	0.8	14.5	376


Impact Resistant


Highly Flexible


Weather Resistant


UV Resistant

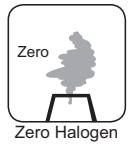

Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266


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 Toxicity


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



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

FRA 155 Single Core

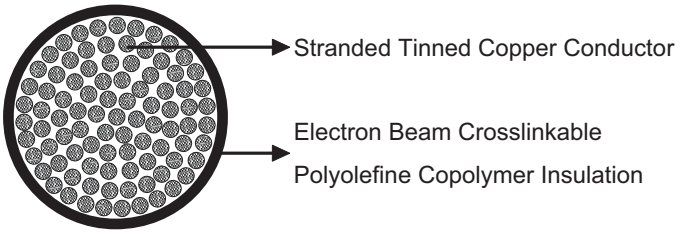
↘ Applications

Single core cable with very high resistance to temperature designed for internal wiring in lamps, heating appliances and distribution boxes in apparatus, mechanical and plant engineering, etc.

↘ Standard

- IEC 60332-1, EN 50265-2-1 (flame retardant)
- EN 50266-2 (non-flame propagating)

↘ Construction



- **Conductors:** Class 5 stranded tinned copper to IEC60228/VDE 0295.
- **Insulation:** Electron beam crosslinkable polyolefine copolymer.
- **Colour Code:** Various colours on request.

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.25	0.34	0.50	0.75	1.0	1.5	2.5	4.0	6.0	10	16
Maximum Conductor Resistance	Ω/km	85.9	57.2	40.1	26.7	20.0	13.7	8.21	5.09	3.39	1.95	1.24
Voltage Rating	V	450/750V (≤0.5mm²); 600/1000V (>0.5mm²)										

Nominal Conductor Cross Section	mm²	25	35	50	70	95	120	150	185	240
Maximum Conductor Resistance	Ω/km	0.795	0.565	0.393	0.277	0.21	0.164	0.132	0.108	0.0817
Voltage Rating	V	450/750V (≤0.5mm²); 600/1000V (>0.5mm²)								

↘ Mechanical and Thermal Properties

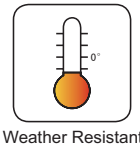
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -55℃ ~+155℃ (Static); -40℃ ~+120℃ (Flexing)
Short Circuit Temperature: +280℃

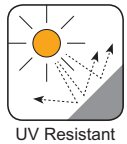
↘ Dimensions and Weight

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
1×0.25	19/0.13	0.5	1.5	4
1×0.34	19/0.15	0.5	1.7	5
1×0.50	16/0.20	0.5	1.8	7
1×0.75	24/0.20	0.6	2.2	10
1×1.0	30/0.20	0.6	2.5	13
1×1.5	30/0.25	0.6	2.7	20
1×2.5	50/0.25	0.7	3.4	31
1×4.0	56/0.30	0.8	4.1	46
1×6.0	84/0.30	0.9	5.2	65
1×10.0	80/0.40	1.0	6.4	110
1×16.0	126/0.40	1.1	7.5	165
1×25.0	196/0.40	1.3	9.2	250
1×35.0	276/0.40	1.3	10.4	345
1×50.0	396/0.40	1.6	12.5	550
1×70.0	360/0.50	1.6	14.7	780
1×95.0	475/0.50	1.8	16.4	1010
1×120.0	608/0.50	1.8	18.2	1280
1×150.0	756/0.50	1.9	20.8	1420
1×185.0	925/0.50	2.0	22.5	1710
1×240.0	1221/0.50	2.2	25.7	2250


Impact Resistant


Highly Flexible


Weather Resistant


UV 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

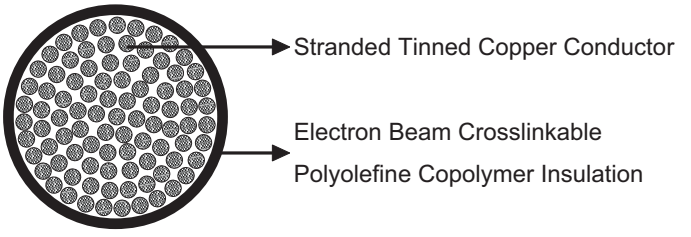
FRA 155S Oil Resistant Single Core

↘ Applications

Single core cable with very high resistance to temperature designed for internal wiring in lamps, heating appliances and distribution boxes in apparatus, mechanical and plant engineering, etc.

↘ Standard

- IEC 60332-1, EN 50265-2-1 (flame retardant)
- EN 50266-2 (non-flame propagating)



↘ Construction

- **Conductors:** Class 5 stranded tinned copper to IEC60228/VDE 0295.
- **Insulation:** Electron beam crosslinkable polyolefine copolymer.
- **Colour Code:** Various colours on request.

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.50	0.75	1.0	1.5	2.5	4.0	6.0
Maximum Conductor Resistance	Ω/km	40.1	26.7	20.0	13.7	8.21	5.09	3.39
Voltage Rating	V	450/750V (≤0.5mm²); 600/1000V (>0.5mm²)						

↘ Mechanical and Thermal Properties

Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -55℃ ~+155℃ (Static); -40℃ ~+120℃ (Flexing)
Short Circuit Temperature: +280℃

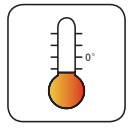
↘ Dimensions and Weight

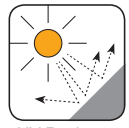
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×0.50	16/0.20	0.4	1.7	7
1×0.75	24/0.20	0.5	2.2	11
1×1.0	30/0.20	0.6	2.5	15
1×1.5	30/0.25	0.6	2.7	19
1×2.5	50/0.25	0.7	3.5	30
1×4.0	56/0.30	0.8	4.2	45
1×6.0	84/0.30	0.9	5.2	66


Oil Resistant


Impact Resistant


Highly Flexible


Weather Resistant


UV 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

FRA 155/S Multicore

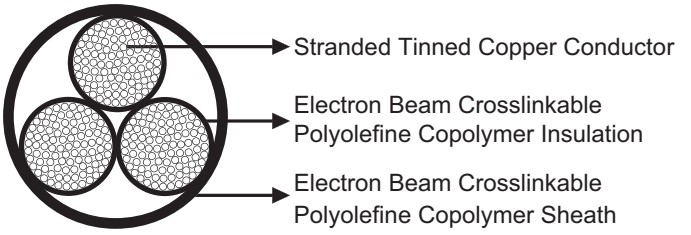
↘ Applications

Multicore cable with very high resistance to temperature designed for internal wiring in lamps, heating appliances and distribution boxes in apparatus, mechanical and plant engineering, etc. Used for fixed and flexible application in dry, humid and wet rooms.

↘ Standard

- IEC 60332-1, EN 50265-2-1 (flame retardant)
- EN 50266-2 (non-flame propagating)

↘ Construction



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

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.25	0.50	0.75	1.0	1.5	2.5
Maximum Conductor Resistance	Ω/km	85.9	40.1	26.7	20.0	13.7	8.21
Voltage Rating	V	450/750V (≤0.5mm²); 600/1000V (>0.5mm²)					

↘ Mechanical and Thermal Properties

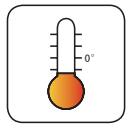
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -55℃ ~+155℃ (Static); -40℃ ~+120℃ (Flexing)
Short Circuit Temperature: +280℃

↘ Dimensions and Weight

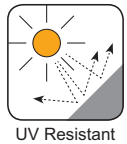
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
4×0.25	19/0.13	0.5	5.4	33
2×0.5	16/0.20	0.5	5.2	30
3×0.5	16/0.20	0.5	5.6	40
8×0.5	16/0.20	0.5	8.8	102
16×0.5	16/0.20	0.5	10.7	166
3×0.75	24/0.20	0.6	6.7	59
4×0.75	24/0.20	0.6	7.5	80
2×1	30/0.20	0.6	7.0	61
3×1	30/0.20	0.6	7.6	77
2×1.5	30/0.25	0.6	7.5	66
3×1.5	30/0.25	0.6	7.9	92
4×1.5	30/0.25	0.6	8.8	117
5×1.5	30/0.25	0.6	10.1	150
3×2.5	50/0.25	0.7	9.9	145
4×2.5	50/0.25	0.7	11.0	186
5×2.5	50/0.25	0.7	12.0	223


Impact Resistant


Highly Flexible



Weather Resistant


UV 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

FRA 155/S EMC Screened Multicore

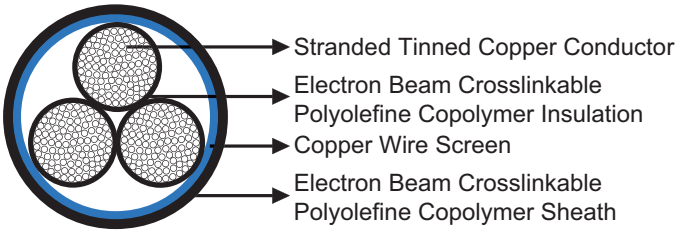
↘ Applications

Multicore cable with very high resistance to temperature designed for internal wiring in lamps, heating appliances and distribution boxes in apparatus, mechanical and plant engineering, etc. Used for fixed and flexible application in dry, humid and wet rooms.

↘ Standard

- IEC 60332-1, EN 50265-2-1 (flame retardant)
- EN 50266-2 (non-flame propagating)

↘ Construction



- **Conductors:** Class 5 stranded tinned copper to IEC60228/VDE 0295.
- **Insulation:** Electron beam crosslinkable polyolefine copolymer.
- **Screen:** Copper wire screen.
- **Sheath:** Electron beam crosslinkable polyolefine copolymer.

↘ Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.25	0.50	1.5	2.5
Maximum Conductor Resistance	Ω/km	85.9	40.1	13.7	8.21
Voltage Rating	V	450/750V (≤0.5mm²); 600/1000V (>0.5mm²)			

↘ Mechanical and Thermal Properties

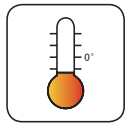
Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
Temperature Range: -55℃ ~+155℃ (Static); -40℃ ~+120℃ (Flexing)
Short Circuit Temperature: +280℃

↘ Dimensions and Weight

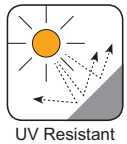
No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×0.25	19/0.13	0.5	5.1	34
6×0.25	19/0.13	0.5	7.0	67
4×2×0.25	19/0.13	0.5	14.0	277
4×0.5	16/0.20	0.5	7.6	76
16×0.5	16/0.20	0.5	11.6	206
3×1.5	30/0.25	0.6	8.7	119
10×1.5	30/0.25	0.6	14.7	332
16×1.5	30/0.25	0.6	22.0	740
8×2.5	50/0.25	0.7	18.0	498
9×2.5	50/0.25	0.7	18.6	518


Impact Resistant


Highly Flexible



Weather Resistant


UV Resistant


Fire Retardant
NF C32-070-2.2(C1)
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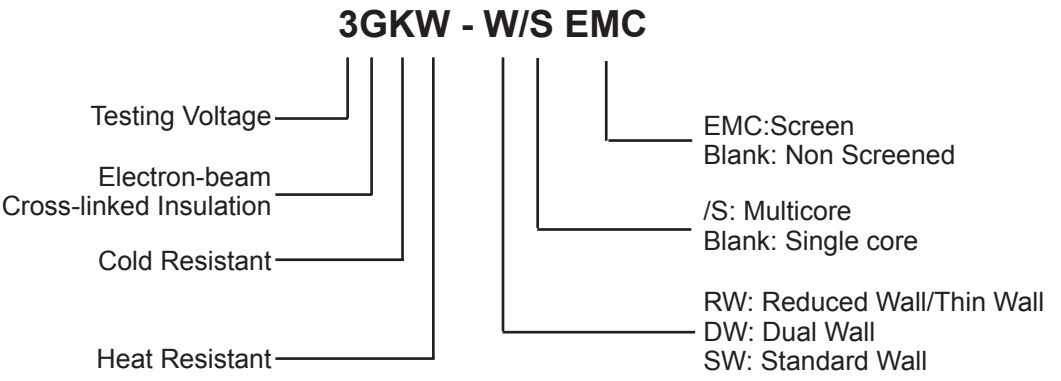
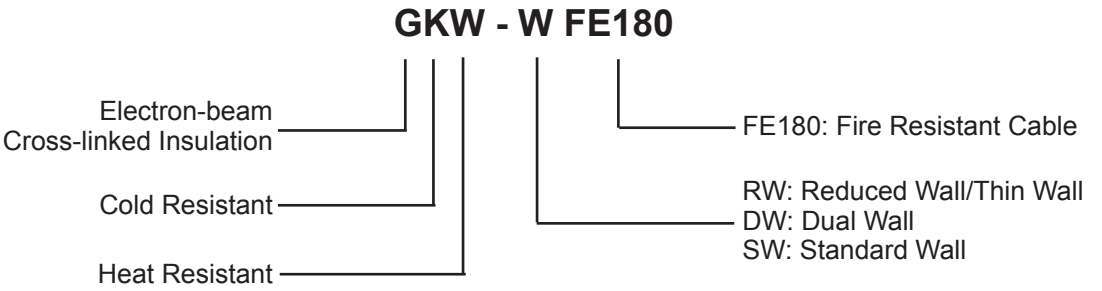
Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1

Ordering Information For GKW Cables

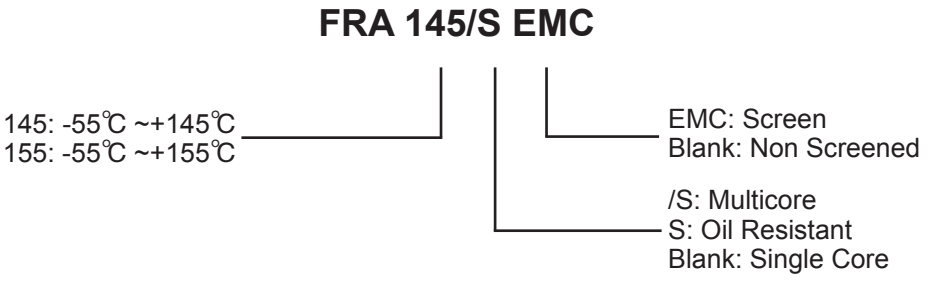
↘ Cable Code Designation





Ordering Information For High Temperature Cables

↘ Cable Code Designation



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