4GKW-AX PLUS FLEX

-40°C to +120°C, 1800/3000V



Construction
Conductor: Flexible Tinned Copper · Extra-Flexible Stranded
Insulation: Extruded · Halogen-Free XLPO
Jacket: Extruded · Halogen-Free XLPO

Thermal Characteristics
Operating Temperature: -40°C to +120°C
Max. Short-Circuit Temperature: +250°C (5 s)

Electrical Characteristics
Operating Voltage: 1800/3000V
Test Voltage: 6500V / 5 min (AC 50 Hz)
Nominal Voltage U0/U (Um): 1.8/3 kV AC (Um 3.6 kV)

Application
Railway Rolling Stock Power & Control: Onboard safety circuits, lighting circuits, auxiliary power distribution, traction converters, and switchgear cabinets in railway vehicles.

General Characteristics
Flexibility: Flexible construction facilitates routing, bending and installation where space is limited.
Fluid & Chemical Inertness: Resists fuels, lubricants, hydraulic fluids, oils, acids, alkalis, and industrial solvents.
Dual-Wall Visual Inspection: Contrasting inner and outer cross-linked layers provide instant visual indication of mechanical scrape or wear.

Standards & Approvals
EN 50264-3-1: Rolling stock power and control cables with reduced dimensions (1.8/3 kV).
EN 45545-2 (HL1–HL3): Fire protection on railway vehicles.
Halogen-Free & Low Smoke: EN 60754-1 / EN 60754-2 · EN 61034-1 / EN 61034-2.
Oil Resistance: EN 60811-404 / IEC 60811-404.

Fire Performance
Fire Retardant: EN 60332-1-2 / IEC 60332-1-2 · EN 50305 · EN 50266-2-4

RoHS COMPLIANT REACH COMPLIANT

CASMO Part No.	Conductor			Insulation		Cable		Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (mm²)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Insulation Thickness (mm)	Min. Wall Thickness (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)		
1120051X	1	32	0.20	0.7	0.53	2.80	0.4	20	17
1120051-5X	1.5	30	0.25	0.7	0.53	3.20	0.4	13.7	23
1120052-5X	2.5	49	0.25	0.7	0.53	3.70	0.4	8.21	35
1120054X	4	56	0.30	0.8	0.62	4.45	0.4	5.09	53
1120056X	6	84	0.30	0.8	0.62	5.05	0.4	3.39	76
11200510X	10	315	0.20	0.8	0.62	6.10	0.6	1.95	122
11200516X	16	490	0.20	0.9	0.71	7.80	0.6	1.24	187
11200525X	25	779	0.20	1.2	0.98	9.60	0.6	0.795	283
11200535X	35	1045	0.20	1.4	1.16	11.40	0.6	0.565	396
11200550X	50	969	0.25	1.4	1.16	13.40	0.6	0.393	560
11200570X	70	1355	0.25	1.6	1.34	14.90	1.0	0.277	750
11200595X	95	1850	0.25	1.6	1.34	16.90	1.0	0.21	980
112005120X	120	2331	0.25	1.8	1.52	19.20	1.0	0.164	1234
112005150X	150	2960	0.25	2.0	1.70	21.00	2.0	0.132	1550
112005185X	185	3700	0.25	2.0	1.70	22.80	2.0	0.108	1860

Please confirm application-specific requirements with CASMO before ordering. Specifications are subject to change; please ensure you are using the latest revision.

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CABLES FOR EXTREMES

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	Conductor Size (mm²)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Insulation Thickness (mm)	Min. Wall Thickness (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)		
112005240X	240	4800	0.25	2.0	1.70	26.10	2.0	0.0817	2500
112005300X	300	4144	0.30	2.0	1.70	29.10	2.0	0.0654	3150
112005400X	400	5439	0.30	2.0	1.70	32.50	2.0	0.0495	3900

Table Notes

* Suffix "X" denotes the Extra-Flexible conductor version. Standard inner core insulation is White; standard outer sheath is Black (other sheath colours available upon request).

† Wall thickness values represent combined dual-layer insulation and sheath thickness. Cross-sections 70 mm² to 400 mm² incorporate a non-woven separator tape over the conductor.

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