casmocable
CABLES FOR EXTREMES

NEMA HP 4 TYPE KK

-65°C to +200°C, 1000V



Construction
Conductor: Silver Plated Copper or Nickel Plated Copper or Tin Coated Copper
Insulation: Extruded · FEP

Thermal Characteristics
Operating Temperature: -65°C to +200°C
Conductor Plating Temperature Rating:
Silver/Nickel-Plated Copper: -65°C to +200°C · Tin-Coated Copper: -65°C to +150°C

Electrical Characteristics
Operating Voltage: 1000V

Application
High-reliability equipment wiring: Internal wiring for electrical and electronic equipment, aviation and aircraft systems per ANSI/NEMA HP 4-2021 Type KK (ex. MIL-W-16878/12).

General Characteristics
Zero Solder Melt-Back: High-purity fluoropolymer insulation resists soldering iron heat without shrink-back or melting.
Fluid & Chemical Inertness: Resists fuels, lubricants, hydraulic fluids, oils, acids, alkalis, and industrial solvents.
Low Dielectric Loss: Stable low dielectric constant and dissipation factor support clean high-frequency and signal transmission.

Standards & Approvals
ANSI/NEMA HP 4: FEP-insulated high-temperature hook-up wire, TYPE KK (thick wall, 1000 V).
MIL-W-16878/12 (Superseded): Former military specification superseded by NEMA HP 4 TYPE KK.

RoHS COMPLIANT REACH COMPLIANT

CASMO Part No.	Conductor			Cable		Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (AWG)	No. Of Strands	Strand Size (AWG)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
HP4KK-XBCB*	28	7	36	1.041	1.245	208.66	2.98
HP4KK-XBDA*	26	1	26	1.067	1.27	137.47	2.98
HP4KK-XBDB*	26	7	34	1.143	1.346	130.25	2.98
HP4KK-XBDE*	26	19	38	1.143	1.346	122.38	2.98
HP4KK-XBEA*	24	1	24	1.168	1.372	85.96	4.46
HP4KK-XBEB*	24	7	32	1.27	1.473	80.38	4.46
HP4KK-XBEE*	24	19	36	1.27	1.473	77.43	4.46
HP4KK-XBFA*	22	1	22	1.295	1.524	54.13	5.95
HP4KK-XBFB*	22	7	30	1.422	1.626	51.18	5.95
HP4KK-XBFE*	22	19	34	1.422	1.626	48.56	7.44
HP4KK-XBGA*	20	1	20	1.473	1.676	33.79	8.93
HP4KK-XBGB*	20	7	28	1.626	1.829	32.19	8.93
HP4KK-XBGE*	20	19	32	1.626	1.829	29.86	10.42
HP4KK-XBHB*	18	7	26	1.88	2.134	20.21	13.39
HP4KK-XBHE*	18	19	30	1.88	2.134	19	13.39
HP4KK-XBJE*	16	19	29	2.108	2.413	14.9	16.37
HP4KK-XBKE*	14	19	27	2.489	2.896	9.42	25.3

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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CASMO Part No.	Conductor			Cable		Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (AWG)	No. Of Strands	Strand Size (AWG)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
HP4KK-XBLE*	12	19	25	2.972	3.378	5.94	35.72
HP4KK-XBMG*	10	37	26	3.48	3.886	3.9	52.08
HP4KK-XBNL*	8	133	29	5.055	5.563	2.17	101.19

Table Notes

* Part numbers shown represent extruded FEP (X) insulation and silver-plated copper conductor (B). Replace "*" with color digit 0–9 per the Color Code Chart below.

1. Conductor diameter and overall O.D. limits per ANSI/NEMA HP 4; Max. DCR is stated for silver-plated copper (SPC) at 20°C; cable weight is nominal reference value.

COLOR CODE CHART					
Cond. #	Color	Cond. #	Color	Cond. #	Color
0	Black	4	Yellow	8	Gray
1	Brown	5	Green	9	White
2	Red	6	Blue		
3	Orange	7	Violet		

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