casmocable
CABLES FOR EXTREMES

CASPEEK 260

-65°C to +260°C, 300V



Construction
Conductor: Nickel Plated Copper or Silver Plated Copper · Stranded
Insulation: Extruded · PEEK

Thermal Characteristics
Operating Temperature: -65°C to +260°C
Short-Term Peak Temperature: +300°C

Electrical Characteristics
Operating Voltage: 300V
Test Voltage: 1500V

Application
Solenoid & Actuator Windings: Thin PEEK wall maximizes coil turns and magnetic field density in compact solenoids.
Downhole, Aerospace & Vacuum: Hook-up and sensor leads for HTHP logging tools, radiation zones, and vacuum chambers.

General Characteristics
Mechanical & Cut-Through Strength: Semi-crystalline PEEK delivers superior tensile, crush, and abrasion toughness.
Chemical & Steam Resistance: Withstands hydrocarbons, acids, solvents, and high-pressure steam.
Radiation, UV & Vacuum Stability: Resists gamma radiation, UV exposure, and ultra-high vacuum outgassing.

Standards & Approvals
ASTM B355 / ASTM B298: Conductor standards for nickel-plated copper (NPC) and silver-plated copper (SPC).
Halogen-Free: IEC 60754-2 / EN 60754-2 inherently halogen-free PEEK polymer.

Fire Performance
Flammability Rating: UL 94 V-0

RoHS COMPLIANT REACH COMPLIANT

CASMO Part No.	Conductor					Nom. Ins. Thickness (mm)	Nom. O.D. (mm)	Max. DCR @20°C (Ω/km)		Nom. Cable Weight (kg/km)
	Conductor Size (AWG)	Cross-Section (mm^2)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Conductor Dia. (mm)			SPC	NPC	
5100126/7-**-XX	26	0.12	7	0.15	0.45	0.20	0.85	150.0	157.8	1.7
5100124/7-**-XX	24	0.20	7	0.20	0.60	0.25	1.10	83.7	88.0	2.9
5100122/19-**-XX	22	0.35	19	0.16	0.80	0.25	1.30	48.5	51.0	4.6
5100120/19-**-XX	20	0.50	19	0.18	0.90	0.25	1.40	38.2	40.1	5.6

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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	Conductor Size (AWG)	Cross-Section (mm^2)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Conductor Dia. (mm)			SPC	NPC	
5100119/19-**-XX	19	0.75	19	0.23	1.15	0.25	1.65	23.2	24.4	8.6
5100118/19-**-XX	18	1.0	19	0.26	1.30	0.25	1.80	18.1	19.1	10.8
5100117/19-**-XX	17	1.2	19	0.28	1.40	0.30	2.00	15.6	16.5	12.7
5100116/19-**-XX	16	1.5	19	0.32	1.60	0.30	2.20	12.0	12.6	16.2
5100115/19-**-XX	15	2.0	19	0.37	1.85	0.30	2.45	8.96	9.42	21.2
5100114/19-**-XX	14	2.5	19	0.41	2.05	0.40	2.85	7.30	7.67	26.8
5100112/37-**-XX	12	4.0	37	0.37	2.60	0.40	3.40	4.62	4.86	41.2
5100110/45-**-XX	10	6.0	45	0.41	3.20	0.50	4.20	3.08	3.24	62.3

Table Notes

* Part No. key: "**" = conductor code (NS = nickel-plated copper, standard for 260°C; SS = silver-plated copper, up to 200°C). "XX" = colour code (NT = Natural Tan/Amber, standard; custom colours on request).

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