CASRAD XP 150 1KV

-65°C to +150°C, 1000V



Construction
Conductor: Tinned Copper · Compact concentric stranded
Insulation: Extruded primary layer · XL-Polyalkene
Jacket: Co-extruded 1000V cross-linked PVDF outer jacket · XL-PVDF

Thermal Characteristics
Operating Temperature: -65°C to +150°C
Thermal Shock & Cold-Bend Endurance: Maintains flexibility and mechanical integrity across -65°C to +150°C thermal cycling without cracking or shrink-back.

Electrical Characteristics
Operating Voltage: 1000V
Test Voltage: 3000V / 1 min
Compact High-Voltage Dielectric Margin: Stepped-up dual-wall cross-linked insulation supports elevated working voltages in tight chassis and power-electronics routing.

Application
Compact Power Distribution & Inverters: For elevated-voltage power feeders, motor drives, and compact switchgear requiring slim O.D. and fluid resistance.
Rail, Marine & Special-Purpose Equipment: For harsh industrial and transportation wiring harnesses subject to abrasion, oils, and thermal cycling.

General Characteristics
Radiation Cross-Linked Non-Melting Polymer: Electron-beam cross-linked polymer network eliminates cold-flow creep and resists soldering iron melt-back during dense harness termination.
Dual-Wall Scrape & Cut-Through Toughness: Co-extruded dual-wall construction combines high dielectric strength with a tough fluoropolymer outer jacket for superior cut-through resistance.
Fuel, Oil & Solvent Resistance: Engineered to resist aviation fuels, hydraulic fluids, motorsport lubricants, coolants, and industrial cleaning solvents.

Standards & Approvals
SAE AS81044 Material & AS4373 Test Reference: 1000V dual-wall radiation cross-linked polyalkene / PVDF construction tested to SAE AS4373 methods.
ASTM B33: Tinned copper conductor standard.

Fire Performance
Fire Retardant: IEC 60332-1-2
Fire Performance: SAE AS4373 60° Flame Test

CASMO Part No.	Conductor				Cable		Max. DCR @20°C (Ω/km)	Max. Cable Weight (kg/km)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)	Max. Conductor Dia. (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)		
5300326/19-TS-XX	26	19	0.102	0.53	1.02	0.05	135.5	2.38
5300324/19-TS-XX	24	19	0.127	0.66	1.17	0.05	86.0	3.57
5300322/19-TS-XX	22	19	0.160	0.84	1.37	0.05	53.1	5.21
5300320/19-TS-XX	20	19	0.203	1.04	1.57	0.05	32.4	7.59
5300318/19-TS-XX	18	19	0.254	1.30	1.85	0.08	20.4	11.46
5300316/19-TS-XX	16	19	0.287	1.47	2.06	0.08	15.8	14.58
5300314/19-TS-XX	14	19	0.361	1.85	2.49	0.10	10.0	21.88
5300312/37-TS-XX	12	37	0.320	2.29	2.97	0.10	6.63	32.89
5300310/37-TS-XX	10	37	0.404	2.90	3.71	0.10	4.13	52.98
530038/133-TS-XX	8	133	0.287	4.39	5.23	0.15	2.30	91.97
530036/133-TS-XX	6	133	0.361	5.51	6.45	0.18	1.46	140.6
530034/133-TS-XX	4	133	0.455	6.96	7.82	0.20	0.919	223.2

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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Table Notes

* "-TS-" = tinned copper conductor.

† Part No. code: XX = colour code — BK Black, WH White, RD Red, GN Green, BN Brown, BL Blue, OR Orange, YW Yellow, VT Violet, GY Grey, PK Pink, TN Tan, CL Clear.

1. Manufactured to CASRAD™ commercial, motorsport, UAV, and industrial specifications (non-QPL). Max. DCR at 20°C and Max. Cable Weight are upper specification limits.

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