CASRAD XP 150 2.5KV

-65°C to +150°C, 2500V



Construction
Conductor: Tinned Copper · Compact concentric stranded
Insulation: Extruded primary layer · XL-Polyalkene
Jacket: Co-extruded heavy-wall 2500V 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: 2500V
Test Voltage: 5000V / 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: 2500V heavy-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

RoHS COMPLIANT REACH COMPLIANT

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)		
5300426/19-TS-XX	26	19	0.102	0.53	1.40	0.05	135.5	3.13
5300424/19-TS-XX	24	19	0.127	0.66	1.50	0.05	86.0	4.46
5300422/19-TS-XX	22	19	0.160	0.84	1.83	0.08	53.1	6.40
5300420/19-TS-XX	20	19	0.203	1.04	2.06	0.08	32.4	9.08
5300418/19-TS-XX	18	19	0.254	1.30	2.32	0.09	20.4	12.95
5300416/19-TS-XX	16	19	0.287	1.47	2.57	0.10	15.8	16.22
5300414/19-TS-XX	14	19	0.361	1.85	3.05	0.13	10.0	24.11
5300412/37-TS-XX	12	37	0.320	2.29	3.45	0.13	6.63	36.01
5300410/37-TS-XX	10	37	0.404	2.90	4.24	0.15	4.13	54.32
530048/133-TS-XX	8	133	0.287	4.39	5.77	0.20	2.30	96.73
530046/133-TS-XX	6	133	0.361	5.51	7.07	0.24	1.46	153.3
530044/133-TS-XX	4	133	0.455	6.96	8.53	0.28	0.919	235.1

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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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)		
530042/665-TS-XX	2	665	0.254	8.64	10.62	0.36	0.600	375.0
530041_0/1045-TS-XX	1/0	1045	0.254	10.80	12.95	0.41	0.381	565.5
530042_0/1330-TS-XX	2/0	1330	0.254	12.07	14.26	0.42	0.302	683.1

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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