CASRAD XP 150M

-65°C to +150°C, 600V



Construction

Conductor: Tinned Copper · Compact concentric stranded
Insulation: Extruded primary layer · XL-Polyalkene
Jacket: Co-extruded medium-wall 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: 600V
Test Voltage: 2500V / 1 min

Application

Aerospace & UAV Lightweight Harnesses: For high-density airframe, avionics, and unmanned aerial vehicle wiring where minimum O.D. and gram-level mass savings are critical.
Motorsport & Robotics Chassis Wiring: For high-reliability engine-bay, ECU, and actuator wiring assemblies exposed to heat, vibration, fuels, and lubricants.

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 AS81044/9 (Reference): Dimensional and electrical envelope aligned with SAE AS81044/9 medium-weight dual-wall wire (non-QPL).
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)		
5300224/19-TS-XX	24	19	0.127	0.66	1.37	0.05	86.0	4.02
5300222/19-TS-XX	22	19	0.160	0.84	1.57	0.08	53.1	5.80
5300220/19-TS-XX	20	19	0.203	1.04	1.78	0.08	32.4	8.18
5300218/19-TS-XX	18	19	0.254	1.30	2.03	0.08	20.4	11.90
5300216/19-TS-XX	16	19	0.287	1.47	2.26	0.10	15.8	15.03
5300214/19-TS-XX	14	19	0.361	1.85	2.74	0.10	10.0	23.07
5300212/37-TS-XX	12	37	0.320	2.29	3.20	0.10	6.63	34.23
5300210/37-TS-XX	10	37	0.404	2.90	3.94	0.13	4.13	53.13
530028/133-TS-XX	8	133	0.287	4.39	5.44	0.15	2.30	98.07
530026/133-TS-XX	6	133	0.361	5.51	6.71	0.18	1.46	154.8
530024/133-TS-XX	4	133	0.455	6.96	8.13	0.20	0.919	239.6
530022/665-TS-XX	2	665	0.254	8.64	10.16	0.30	0.600	385.4
530021_0/1045-TS-XX	1/0	1045	0.254	10.80	12.45	0.41	0.381	561.0

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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