CASRAD XP 150L

-65°C to +150°C, 600V



Construction
Conductor: Tinned Copper or Silver Plated Copper · Compact concentric stranded
Insulation: Extruded primary layer · XL-Polyalkene
Jacket: Co-extruded 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 AS81044/12 & /11 (Reference): Dimensional and electrical envelope aligned with SAE AS81044/12 (tinned copper) and AS81044/11 (silver-plated copper) lightweight dual-wall wire (non-QPL).
VG 95218-20 Type A (Reference): Compatible with European defence dual-wall polyalkene/PVDF hook-up wire requirements.
ASTM B33 / ASTM B298: Tinned copper (TPC) and silver-plated copper (SPC) conductor standards.

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)	TPC	SPC	
5300130/7-**-XX	30	7	0.102	0.33	0.69	0.05	355.6	330.4	1.06
5300128/7-**-XX	28	7	0.127	0.41	0.76	0.05	225.1	209.3	1.43
5300126/19-**-XX	26	19	0.102	0.51	0.86	0.05	135.5	126.0	2.08
5300124/19-**-XX	24	19	0.127	0.64	1.02	0.05	86.0	79.7	2.98
5300122/19-**-XX	22	19	0.160	0.79	1.19	0.05	53.1	49.5	4.46
5300120/19-**-XX	20	19	0.203	0.99	1.40	0.05	32.4	30.2	6.70
5300118/19-**-XX	18	19	0.254	1.24	1.65	0.05	20.4	19.0	10.12
5300116/19-**-XX	16	19	0.287	1.40	1.83	0.08	15.8	14.8	12.80
5300114/19-**-XX	14	19	0.361	1.75	2.26	0.10	10.0	9.45	19.64
5300112/37-**-XX	12	37	0.320	2.26	2.74	0.10	6.63	6.23	30.06

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

* Replace "**" with the conductor code: TS for tinned copper or SS for silver-plated copper.

† 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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