CASRAD XE 150D

-65°C to +150°C, 600V



Construction
Conductor: Tinned Copper · Compact concentric stranded
Insulation: Extruded primary layer · XL-ETFE
Jacket: Dual-layer extruded contrast outer wall · XL-ETFE

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: Dual-layer extruded construction with contrasting inner core colour provides immediate visual wear indication while maximizing scrape-abrasion endurance.
Fuel, Oil & Solvent Resistance: Engineered to resist aviation fuels, hydraulic fluids, motorsport lubricants, coolants, and industrial cleaning solvents.

Standards & Approvals
SAE AS22759/34 (Reference): Dimensional and electrical envelope aligned with SAE AS22759/34 normal-weight dual-wall XL-ETFE (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)		
5200324/19-TS-XX	24	19	0.127	0.64	1.14	0.05	86.0	3.42
5200322/19-TS-XX	22	19	0.160	0.79	1.27	0.05	53.1	4.76
5200320/19-TS-XX	20	19	0.203	0.99	1.47	0.05	32.4	6.99
5200318/19-TS-XX	18	19	0.254	1.24	1.78	0.08	20.4	10.71
5200316/19-TS-XX	16	19	0.287	1.40	1.96	0.08	15.8	13.39
5200314/19-TS-XX	14	19	0.361	1.75	2.39	0.08	10.0	20.54
5200312/37-TS-XX	12	37	0.320	2.26	2.82	0.08	6.63	30.51
5200310/37-TS-XX	10	37	0.404	2.87	3.40	0.10	4.13	48.22
520038/133-TS-XX	8	133	0.287	4.39	4.95	0.20	2.30	89.74
520036/133-TS-XX	6	133	0.361	5.51	6.12	0.25	1.46	140.6
520034/133-TS-XX	4	133	0.455	6.96	7.87	0.25	0.919	223.2
520032/665-TS-XX	2	665	0.254	8.64	10.29	0.41	0.600	355.7
520031/817-TS-XX	1	817	0.254	9.65	11.30	0.41	0.489	431.6
520031_0/1045-TS-XX	1/0	1045	0.254	10.80	12.32	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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	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)	Max. Conductor Dia. (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)		
520032_0/1330-TS-XX	2/0	1330	0.254	12.07	13.84	0.41	0.299	724.7

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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