CASRAD XE 150S

-65°C to +150°C, 600V



Construction
Conductor: Tinned Copper · Compact concentric stranded
Insulation: Extruded · 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.
Ultra-Thin Lightweight Construction: Compact thin-wall insulation geometry minimizes harness bundle diameter and saves weight across aerospace, motorsport, and UAV assemblies.
Fuel, Oil & Solvent Resistance: Engineered to resist aviation fuels, hydraulic fluids, motorsport lubricants, coolants, and industrial cleaning solvents.

Standards & Approvals
SAE AS22759/32 (Reference): Dimensional and electrical envelope aligned with SAE AS22759/32 lightweight single-wall XL-ETFE (non-QPL).
VG 95218-20 Type E (Reference): Compatible with European defence thin-wall XL-ETFE hook-up wire requirements.
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				Nom. Ins. Thickness (mm)	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)		
5200130/7-TS-XX	30	7	0.102	0.33	0.15	0.61	0.05	356	0.98
5200128/7-TS-XX	28	7	0.127	0.41	0.15	0.69	0.05	224	1.35
5200126/19-TS-XX	26	19	0.102	0.51	0.15	0.81	0.05	135	2.08
5200124/19-TS-XX	24	19	0.127	0.64	0.15	0.94	0.05	86.0	2.98
5200122/19-TS-XX	22	19	0.160	0.79	0.15	1.09	0.05	53.1	4.17
5200120/19-TS-XX	20	19	0.203	0.99	0.15	1.27	0.05	32.4	6.40
5200118/19-TS-XX	18	19	0.254	1.24	0.15	1.52	0.05	20.4	9.67
5200116/19-TS-XX	16	19	0.287	1.40	0.16	1.73	0.05	15.8	12.35
5200114/19-TS-XX	14	19	0.361	1.75	0.19	2.16	0.08	10.0	19.35
5200112/37-TS-XX	12	37	0.320	2.26	0.22	2.72	0.08	6.63	29.76

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.

Please confirm application-specific requirements with CASMO before ordering. Specifications are subject to change; please ensure you are using the latest revision.

© CASMO CABLE LLC. All rights reserved.