CASRAD XE 200MC

-65°C to +200°C, 600V



Construction
Conductor: Silver Plated Copper · Compact concentric stranded
Core Insulation: Extruded · XL-ETFE
Cabling: Twisted · Concentric twisted lay for tight flexibility and EMI balance
Core Identification: Colour-coded cores per NEMA chart (2C: Black / White; 3C: Black / White / Green; 4C: Black / White / Green / Red)
Shield: Braid · Silver-plated copper braid (≥85% coverage)
Jacket: Extruded overall jacket · XL-ETFE

Thermal Characteristics
Operating Temperature: -65°C to +200°C
Thermal Shock & Cold-Bend Endurance: Maintains flexibility and mechanical integrity across -65°C to +200°C thermal cycling without cracking or shrink-back.

Electrical Characteristics
Operating Voltage: 600V
Test Voltage: 2500V / 1 min

Application
Motorsport & UAV Sensor / CAN-Bus Harnesses: For EMI-shielded ECU, telemetry, actuator, and differential data runs in space- and weight-constrained race vehicles and unmanned aircraft.
Aerospace & Robotics Interconnects: For shielded avionics sub-assemblies, gimbal control wiring, and ruggedized mobile equipment exposed to vibration and fluids.

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.
360° EMI Braid Screening: Round-wire copper braid shield (≥85% optical coverage) provides low-impedance EMI/RFI protection for sensitive sensor, CAN, and avionics signals.

Standards & Approvals
NEMA WC 27500 (Reference): 200°C shielded and jacketed multiconductor architecture aligned with NEMA WC 27500 (SP silver-plated XL-ETFE component wires, non-QPL).
SAE AS22759/44 Core Reference: Inner component wires follow CASRAD XE 200S / AS22759/44 dimensional envelope.

Fire Performance
Fire Retardant: IEC 60332-1-2
Fire Performance: SAE AS4373 60° Flame Test

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casmocable
CABLES FOR EXTREMES

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CASMO Part No.	Total Cores	Conductor			Nom. Ins. Thickness (mm)	Braid Coverage (%)	Cable			Max. DCR @20°C (Ω/km)	Max. Cable Weight (kg/km)
		Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)			Nom. Jkt. Thickness (mm)	Nom. O.D. (mm)	Max. Overall O.D. (mm)		
522022C26-SS-WH	2	26	19	0.102	0.15	85	0.20	2.46	2.59	126.0	11.8
522023C26-SS-WH	3	26	19	0.102	0.15	85	0.20	2.59	2.72	126.0	14.9
522024C26-SS-WH	4	26	19	0.102	0.15	85	0.20	2.79	3.23	126.0	18.3
522022C24-SS-WH	2	24	19	0.127	0.15	85	0.20	2.72	2.87	79.7	14.6
522023C24-SS-WH	3	24	19	0.127	0.15	85	0.20	2.87	3.02	79.7	18.8
522024C24-SS-WH	4	24	19	0.127	0.15	85	0.20	3.12	3.58	79.7	23.2
522022C22-SS-WH	2	22	19	0.160	0.15	85	0.20	3.02	3.18	49.5	18.2
522023C22-SS-WH	3	22	19	0.160	0.15	85	0.20	3.20	3.35	49.5	23.7
522024C22-SS-WH	4	22	19	0.160	0.15	85	0.20	3.48	4.04	49.5	30.5
522022C20-SS-WH	2	20	19	0.203	0.15	85	0.20	3.38	3.56	30.2	24.0
522023C20-SS-WH	3	20	19	0.203	0.15	85	0.20	3.58	3.76	30.2	32.0
522024C20-SS-WH	4	20	19	0.203	0.15	85	0.20	3.91	4.55	30.2	41.8
522022C18-SS-WH	2	18	19	0.254	0.15	85	0.20	3.89	4.11	19.0	33.5
522023C18-SS-WH	3	18	19	0.254	0.15	85	0.20	4.14	4.34	19.0	44.2
522024C18-SS-WH	4	18	19	0.254	0.15	85	0.20	4.52	5.28	19.0	58.6
522022C16-SS-WH	2	16	19	0.287	0.16	85	0.20	4.29	4.52	14.8	40.6
522023C16-SS-WH	3	16	19	0.287	0.16	85	0.20	4.57	4.80	14.8	54.2

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CASMO Part No.	Total Cores	Conductor			Nom. Ins. Thickness (mm)	Braid Coverage (%)	Cable			Max. DCR @20°C (Ω/km)	Max. Cable Weight (kg/km)
		Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)			Nom. Jkt. Thickness (mm)	Nom. O.D. (mm)	Max. Overall O.D. (mm)		
522024C16-SS-WH	4	16	19	0.287	0.16	85	0.20	5.03	5.87	14.8	72.0

Table Notes

* "-SS-" = silver-plated copper conductor.

† "-WH" = White outer jacket (standard); "-BK" Black and other jacket colours available on request.

1. Manufactured to CASRAD™ commercial, motorsport, UAV, and industrial specifications (non-QPL). Max. Overall O.D., Max. DCR at 20°C, and Max. Cable Weight are upper specification limits.

COLOR CODE CHART

Cond. #	Color	Cond. #	Color	Cond. #	Color
1	Black	3	Green		
2	White	4	Red		

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