UL 20549 SHIELDED

-40°C to +80°C, 300V



Construction
Conductor: Tinned Copper · Stranded
Core Insulation: Extruded · Polypropylene (PP)
Cabling: Laid Up · Compact concentric lay
Core Identification: Color-coded per NEMA WC 57 / ICEA S-73-532 Table E-2
Binder: Non-woven tape
Shield: Foil Braid · Aluminum/polyester (Al/PET) foil (100%) + Tinned Copper Braid (≥85%)
Drain Wire: Stranded Tinned Copper Drain Wire
Jacket: Extruded (Matte Black standard) · PUR/TPU

Thermal Characteristics
Operating Temperature: -40°C to +80°C
Occasional Flexing Temperature: -25°C to +80°C

Electrical Characteristics
Operating Voltage: 300V
Test Voltage: 2000V / 1 min

Application
Sensors and Instrumentation: For connections between sensors, measuring instruments and associated control equipment.
Industrial Automation: For power, signal or control connections within industrial automation systems, as specified for the selected cable construction.

General Characteristics
Oil Resistance: Resistant to oil exposure, helping maintain the integrity of the cable covering in oily environments.
Abrasion Resistance: Resistant to abrasion, helping protect the cable surface against wear caused by rubbing and handling.
Low-Temperature Flexibility: Maintains flexibility at low temperatures, facilitating cable routing and handling in cold environments.
EMI / RFI Shielding: 100% aluminum/polyester (Al/PET) foil plus ≥85% tinned-copper braid shield provides broadband EMI/RFI protection in electrically noisy automation environments.

Standards & Approvals
UL 758: UL 758 Appliance Wiring Material, Style 20549 (300 V, 80°C).
CSA C22.2 No. 210: cRU Recognized AWM I A/B 80°C 300V FT2 (Class I/II A/B for constructions with ≥ 0.76 mm outer jacket; FT1 optional).

Fire Performance
Fire Retardant: VW-1 / FT1 / FT2

CASMO Part No.	Total Cores	Conductor			Nom. Ins. Thickness (mm)	Nom. Jkt. Thickness (mm)	Braid Coverage (%)	Nom. O.D. (mm)	Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
		Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)						
1241122C26-TS2-XX	2	26	7	0.16	0.20	0.55	85	3.8	150	26
1241123C26-TS2-XX	3	26	7	0.16	0.20	0.55	85	4.0	150	28
1241124C26-TS2-XX	4	26	7	0.16	0.20	0.55	85	4.2	150	32
1241125C26-TS2-XX	5	26	7	0.16	0.20	0.55	85	4.5	150	35
1241127C26-TS2-XX	7	26	7	0.16	0.20	0.55	85	4.8	150	41
12411212C26-TS2-XX	12	26	7	0.16	0.20	0.55	85	5.8	150	57
1241122C24-TS2-XX	2	24	7	0.203	0.20	0.55	85	4.1	94.2	29
1241123C24-TS2-XX	3	24	7	0.203	0.20	0.55	85	4.3	94.2	33
1241124C24-TS2-XX	4	24	7	0.203	0.20	0.55	85	4.5	94.2	38
1241125C24-TS2-XX	5	24	7	0.203	0.20	0.55	85	4.8	94.2	42
1241127C24-TS2-XX	7	24	7	0.203	0.20	0.55	85	5.2	94.2	50

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CABLES FOR EXTREMES

UL 20549 SHIELDED

-40°C to +80°C, 300V



CASMO Part No.	Total Cores	Conductor			Nom. Ins. Thickness (mm)	Nom. Jkt. Thickness (mm)	Braid Coverage (%)	Nom. O.D. (mm)	Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
		Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)						
12411212C24-TS2-XX	12	24	7	0.203	0.20	0.55	85	6.4	94.2	71
1241122C22-TS2-XX	2	22	7	0.254	0.22	0.55	85	4.5	59.4	35
1241123C22-TS2-XX	3	22	7	0.254	0.22	0.55	85	4.7	59.4	40
1241124C22-TS2-XX	4	22	7	0.254	0.22	0.55	85	5.0	59.4	46
1241125C22-TS2-XX	5	22	7	0.254	0.22	0.55	85	5.4	59.4	53
1241127C22-TS2-XX	7	22	7	0.254	0.22	0.55	85	5.7	59.4	63
12411212C22-TS2-XX	12	22	7	0.254	0.22	0.55	85	7.2	59.4	93
1241122C20-TS2-XX	2	20	26	0.16	0.23	0.55	85	4.9	36.7	41
1241123C20-TS2-XX	3	20	26	0.16	0.23	0.55	85	5.1	36.7	48
1241124C20-TS2-XX	4	20	26	0.16	0.23	0.55	85	5.5	36.7	56
1241125C20-TS2-XX	5	20	26	0.16	0.23	0.55	85	5.9	36.7	65
1241127C20-TS2-XX	7	20	26	0.16	0.23	0.55	85	6.3	36.7	79
12411212C20-TS2-XX	12	20	26	0.16	0.23	0.55	85	8.0	36.7	119
1241122C18-TS2-XX	2	18	41	0.16	0.25	0.60	85	5.5	23.9	52
1241123C18-TS2-XX	3	18	41	0.16	0.25	0.60	85	5.8	23.9	63
1241124C18-TS2-XX	4	18	41	0.16	0.25	0.60	85	6.3	23.9	74
1241125C18-TS2-XX	5	18	41	0.16	0.25	0.60	85	6.8	23.9	87
1241127C18-TS2-XX	7	18	41	0.16	0.25	0.60	85	7.3	23.9	108
1241122C16-TS2-XX	2	16	65	0.16	0.28	0.65	85	6.4	15.0	68
1241123C16-TS2-XX	3	16	65	0.16	0.28	0.65	85	6.7	15.0	84
1241124C16-TS2-XX	4	16	65	0.16	0.28	0.65	85	7.2	15.0	101
1241125C16-TS2-XX	5	16	65	0.16	0.28	0.65	85	7.8	15.0	119

Table Notes

* "-TS2-" = tinned copper conductor with FT2 flame rating (standard). "-TS1-" = tinned copper conductor with VW-1 / FT1 flame rating (optional).

† "-XX" = outer jacket color code: BK Black (standard), GY Grey, OR Orange, YW Yellow, BL Blue, RD Red. Custom jacket colors and core legends available on request.

COLOR CODE CHART

Cond. #	Color	Cond. #	Color	Cond. #	Color
1	Black	5	Orange	9	Green/Black Stripe
2	White	6	Blue	10	Orange/Black Stripe
3	Red	7	White/Black Stripe	11	Blue/Black Stripe
4	Green	8	Red/Black Stripe	12	Black/White Stripe

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