UL 20233 SHIELDED

-40°C to +80°C, 300V



Construction
Conductor: Tinned Copper · Extra-Flexible Stranded
Core Insulation: Extruded · TPE
Cabling: Laid Up · Short-pitch concentric flex 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
Continuous Flexing Temperature: -30°C to +80°C

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

Application
Industrial Automation: For power, signal or control connections within industrial automation systems, as specified for the selected cable construction.
Signal and Control Connections: For signal transmission and control connections within industrial machinery and equipment.

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.
Hydrolysis Resistance: Resistant to hydrolytic degradation, helping maintain material integrity during exposure to moisture.
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 20233 (300 V, 80°C).
CSA C22.2 No. 210: cRU Recognized AWM I/II A/B 80°C 300V FT1 / FT2.

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)						
1241132C24-TS2-XX	2	24	19	0.127	0.25	0.80	85	4.9	94.2	37
1241133C24-TS2-XX	3	24	19	0.127	0.25	0.80	85	5.0	94.2	41
1241134C24-TS2-XX	4	24	19	0.127	0.25	0.80	85	5.4	94.2	47
1241135C24-TS2-XX	5	24	19	0.127	0.25	0.80	85	5.7	94.2	52
1241137C24-TS2-XX	7	24	19	0.127	0.25	0.80	85	6.0	94.2	61
12411312C24-TS2-XX	12	24	19	0.127	0.25	0.80	85	7.4	94.2	88
1241132C22-TS2-XX	2	22	19	0.16	0.25	0.80	85	5.2	59.4	42
1241133C22-TS2-XX	3	22	19	0.16	0.25	0.80	85	5.4	59.4	48
1241134C22-TS2-XX	4	22	19	0.16	0.25	0.80	85	5.7	59.4	55
1241135C22-TS2-XX	5	22	19	0.16	0.25	0.80	85	6.1	59.4	63
1241137C22-TS2-XX	7	22	19	0.16	0.25	0.80	85	6.5	59.4	76

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CABLES FOR EXTREMES

UL 20233 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)						
12411312C22-TS2-XX	12	22	19	0.16	0.25	0.80	85	8.1	59.4	111
1241132C20-TS2-XX	2	20	26	0.16	0.28	0.80	85	5.6	36.7	48
1241133C20-TS2-XX	3	20	26	0.16	0.28	0.80	85	5.8	36.7	56
1241134C20-TS2-XX	4	20	26	0.16	0.28	0.80	85	6.2	36.7	66
1241135C20-TS2-XX	5	20	26	0.16	0.28	0.80	85	6.7	36.7	75
1241137C20-TS2-XX	7	20	26	0.16	0.28	0.80	85	7.1	36.7	91
12411312C20-TS2-XX	12	20	26	0.16	0.28	0.80	85	8.9	36.7	137
1241132C18-TS2-XX	2	18	41	0.16	0.30	0.85	85	6.2	23.9	60
1241133C18-TS2-XX	3	18	41	0.16	0.30	0.85	85	6.5	23.9	72
1241134C18-TS2-XX	4	18	41	0.16	0.30	0.85	85	7.0	23.9	85
1241135C18-TS2-XX	5	18	41	0.16	0.30	0.85	85	7.5	23.9	99
1241137C18-TS2-XX	7	18	41	0.16	0.30	0.85	85	8.1	23.9	122
12411312C18-TS2-XX	12	18	41	0.16	0.30	0.85	85	10.2	23.9	186
1241132C16-TS2-XX	2	16	65	0.16	0.35	0.90	85	7.1	15.0	78
1241133C16-TS2-XX	3	16	65	0.16	0.35	0.90	85	7.5	15.0	96
1241134C16-TS2-XX	4	16	65	0.16	0.35	0.90	85	8.1	15.0	115
1241135C16-TS2-XX	5	16	65	0.16	0.35	0.90	85	8.7	15.0	135
1241137C16-TS2-XX	7	16	65	0.16	0.35	0.90	85	9.4	15.0	170
1241132C14-TS2-XX	2	14	105	0.16	0.40	1.00	85	8.4	9.45	108
1241133C14-TS2-XX	3	14	105	0.16	0.40	1.00	85	8.8	9.45	134
1241134C14-TS2-XX	4	14	105	0.16	0.40	1.00	85	9.5	9.45	163
1241135C14-TS2-XX	5	14	105	0.16	0.40	1.00	85	10.3	9.45	193

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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