UL 20234 SHIELDED

-30°C to +80°C, 600V



Construction
Conductor: Tinned Copper · Flexible Stranded
Core Insulation: Extruded · PVC
Cabling: Laid Up · Concentric lay
Core Identification: Color-coded per NEMA WC 57 / ICEA S-73-532 Table E-2 (numbered black cores available on request)
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 (Heavy-Duty Matte Black standard) · PUR/TPU

Thermal Characteristics
Operating Temperature: -30°C to +80°C
Occasional Flexing Temperature: -5°C to +70°C

Electrical Characteristics
Operating Voltage: 600V
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.
Control Cabinets: For wiring within control cabinets, control panels and electrical assemblies.

General Characteristics
Mechanical Strength: Provides mechanical strength to withstand handling and installation stresses and help maintain cable integrity.
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.
UV Resistance: Resistant to ultraviolet exposure, helping reduce surface deterioration caused by sunlight.
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 20234 (600 V, 80°C).
CSA C22.2 No. 210: cRU Recognized AWM I/II A/B 80°C 600V 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)						
1241162C20-TS2-XX	2	20	26	0.16	0.38	1.15	85	6.7	36.7	62
1241163C20-TS2-XX	3	20	26	0.16	0.38	1.15	85	7.0	36.7	72
1241164C20-TS2-XX	4	20	26	0.16	0.38	1.15	85	7.4	36.7	83
1241165C20-TS2-XX	5	20	26	0.16	0.38	1.15	85	7.9	36.7	95
1241167C20-TS2-XX	7	20	26	0.16	0.38	1.15	85	8.4	36.7	114
12411612C20-TS2-XX	12	20	26	0.16	0.38	1.15	85	10.4	36.7	168
1241162C18-TS2-XX	2	18	41	0.16	0.41	1.15	85	7.3	23.9	74
1241163C18-TS2-XX	3	18	41	0.16	0.41	1.15	85	7.6	23.9	88
1241164C18-TS2-XX	4	18	41	0.16	0.41	1.15	85	8.1	23.9	103
1241165C18-TS2-XX	5	18	41	0.16	0.41	1.15	85	8.7	23.9	120
1241167C18-TS2-XX	7	18	41	0.16	0.41	1.15	85	9.3	23.9	147

Product illustrations are representative only and nominal values are for reference (Cal. Com. Code § 2313); binding acceptance is governed by CASMO's order acknowledgment, signed drawing, and applicable agency scope. Standards cited without a corresponding agency mark indicate design/test reference only. Specifications are subject to change; confirm latest revision and Terms of Sale at casmocable.com/terms.
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CABLES FOR EXTREMES

UL 20234 SHIELDED

-30°C to +80°C, 600V



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)						
12411612C18-TS2-XX	12	18	41	0.16	0.41	1.15	85	11.7	23.9	222
1241162C16-TS2-XX	2	16	65	0.16	0.41	1.15	85	7.9	15.0	90
1241163C16-TS2-XX	3	16	65	0.16	0.41	1.15	85	8.2	15.0	109
1241164C16-TS2-XX	4	16	65	0.16	0.41	1.15	85	8.9	15.0	130
1241165C16-TS2-XX	5	16	65	0.16	0.41	1.15	85	9.5	15.0	152
1241167C16-TS2-XX	7	16	65	0.16	0.41	1.15	85	10.2	15.0	190
12411612C16-TS2-XX	12	16	65	0.16	0.41	1.15	85	12.9	15.0	294
1241162C14-TS2-XX	2	14	41	0.254	0.45	1.15	85	8.8	9.45	116
1241163C14-TS2-XX	3	14	41	0.254	0.45	1.15	85	9.3	9.45	144
1241164C14-TS2-XX	4	14	41	0.254	0.45	1.15	85	10.0	9.45	175
1241165C14-TS2-XX	5	14	41	0.254	0.45	1.15	85	10.8	9.45	206
1241167C14-TS2-XX	7	14	41	0.254	0.45	1.15	85	11.7	9.45	262
12411612C14-TS2-XX	12	14	41	0.254	0.45	1.15	85	14.9	9.45	413
1241162C12-TS2-XX	2	12	65	0.254	0.50	1.20	85	10.1	5.94	154
1241163C12-TS2-XX	3	12	65	0.254	0.50	1.20	85	10.6	5.94	196
1241164C12-TS2-XX	4	12	65	0.254	0.50	1.20	85	11.5	5.94	242
1241165C12-TS2-XX	5	12	65	0.254	0.50	1.20	85	12.5	5.94	288
1241167C12-TS2-XX	7	12	65	0.254	0.50	1.20	85	13.5	5.94	372
12411612C12-TS2-XX	12	12	65	0.254	0.50	1.20	85	17.4	5.94	595
1241162C10-TS2-XX	2	10	105	0.254	0.60	1.25	85	11.9	3.75	216
1241163C10-TS2-XX	3	10	105	0.254	0.60	1.25	85	12.5	3.75	282
1241164C10-TS2-XX	4	10	105	0.254	0.60	1.25	85	13.6	3.75	352
1241165C10-TS2-XX	5	10	105	0.254	0.60	1.25	85	14.9	3.75	423
1241167C10-TS2-XX	7	10	105	0.254	0.60	1.25	85	16.1	3.75	553
12411612C10-TS2-XX	12	10	105	0.254	0.60	1.60	85	21.7	3.75	925

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

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COLOR CODE CHART					
Cond. #	**Color**	**Cond. #**	**Color**	**Cond. #**	**Color**
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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