UL 20668 SHIELDED

-30°C to +90°C, 300V



Construction
Conductor: Tinned Copper · Stranded
Core Insulation: Extruded · SR-PVC
Cabling: Laid Up · 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: -30°C to +90°C
Occasional Flexing Temperature: -5°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.
Mechanical Strength: Provides mechanical strength to withstand handling and installation stresses and help maintain cable integrity.
Flexibility: Flexible construction facilitates routing, bending and installation where space is limited.
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 20668 (300 V, 90°C).
CSA C22.2 No. 210: cRU Recognized AWM I/II A/B 90°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)						
1241142C26-TS2-XX	2	26	7	0.16	0.22	0.80	85	4.4	150	31
1241143C26-TS2-XX	3	26	7	0.16	0.22	0.80	85	4.6	150	34
1241144C26-TS2-XX	4	26	7	0.16	0.22	0.80	85	4.8	150	38
1241146C26-TS2-XX	6	26	7	0.16	0.22	0.80	85	5.4	150	47
1241148C26-TS2-XX	8	26	7	0.16	0.22	0.80	85	5.7	150	53
12411412C26-TS2-XX	12	26	7	0.16	0.22	0.80	85	6.5	150	68
1241142C24-TS2-XX	2	24	7	0.203	0.23	0.80	85	4.7	94.2	35
1241143C24-TS2-XX	3	24	7	0.203	0.23	0.80	85	4.9	94.2	40
1241144C24-TS2-XX	4	24	7	0.203	0.23	0.80	85	5.2	94.2	45
1241146C24-TS2-XX	6	24	7	0.203	0.23	0.80	85	5.8	94.2	56
1241148C24-TS2-XX	8	24	7	0.203	0.23	0.80	85	6.2	94.2	65

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.
© CASMO CABLE LLC. All rights reserved. UL®, cUL®, and UL certification marks are trademarks of UL LLC; CSA® is a trademark of CSA Group; TÜV Rheinland® is a trademark of TÜV Rheinland AG.

casmocable
CABLES FOR EXTREMES

UL 20668 SHIELDED

-30°C to +90°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)						
12411412C24-TS2-XX	12	24	7	0.203	0.23	0.80	85	7.1	94.2	84
1241142C22-TS2-XX	2	22	7	0.254	0.23	0.80	85	5.0	59.4	41
1241143C22-TS2-XX	3	22	7	0.254	0.23	0.80	85	5.2	59.4	46
1241144C22-TS2-XX	4	22	7	0.254	0.23	0.80	85	5.6	59.4	54
1241146C22-TS2-XX	6	22	7	0.254	0.23	0.80	85	6.4	59.4	69
1241148C22-TS2-XX	8	22	7	0.254	0.23	0.80	85	6.7	59.4	80
12411412C22-TS2-XX	12	22	7	0.254	0.23	0.80	85	7.8	59.4	106
1241142C20-TS2-XX	2	20	26	0.16	0.25	0.80	85	5.5	36.7	48
1241143C20-TS2-XX	3	20	26	0.16	0.25	0.80	85	5.7	36.7	56
1241144C20-TS2-XX	4	20	26	0.16	0.25	0.80	85	6.1	36.7	65
1241146C20-TS2-XX	6	20	26	0.16	0.25	0.80	85	6.9	36.7	84
1241148C20-TS2-XX	8	20	26	0.16	0.25	0.80	85	7.4	36.7	100
1241142C18-TS2-XX	2	18	41	0.16	0.28	0.85	85	6.2	23.9	60
1241143C18-TS2-XX	3	18	41	0.16	0.28	0.85	85	6.4	23.9	72
1241144C18-TS2-XX	4	18	41	0.16	0.28	0.85	85	6.9	23.9	85
1241146C18-TS2-XX	6	18	41	0.16	0.28	0.85	85	7.9	23.9	113
1241142C16-TS2-XX	2	16	65	0.16	0.30	0.90	85	6.9	15.0	77
1241143C16-TS2-XX	3	16	65	0.16	0.30	0.90	85	7.3	15.0	94
1241144C16-TS2-XX	4	16	65	0.16	0.30	0.90	85	7.8	15.0	113

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

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.

© CASMO CABLE LLC. All rights reserved. UL®, cUL®, and UL certification marks are trademarks of UL LLC; CSA® is a trademark of CSA Group; TÜV Rheinland® is a trademark of TÜV Rheinland AG.