UL 20549

-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
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.
Compact Small-Diameter Design: Thin-wall polypropylene core insulation reduces overall bundle diameter and weight in high-density sensor harnesses.

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)	Cable		Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
		Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)		Nom. Jkt. Thickness (mm)	Nom. O.D. (mm)		
1241052C26-TS2-XX	2	26	7	0.16	0.20	0.55	3.2	150	10
1241053C26-TS2-XX	3	26	7	0.16	0.20	0.55	3.3	150	12
1241054C26-TS2-XX	4	26	7	0.16	0.20	0.55	3.6	150	14
1241055C26-TS2-XX	5	26	7	0.16	0.20	0.55	3.8	150	16
1241057C26-TS2-XX	7	26	7	0.16	0.20	0.55	4.1	150	21
12410512C26-TS2-XX	12	26	7	0.16	0.20	0.55	5.2	150	32
1241052C24-TS2-XX	2	24	7	0.203	0.20	0.55	3.5	94.2	12
1241053C24-TS2-XX	3	24	7	0.203	0.20	0.55	3.6	94.2	15
1241054C24-TS2-XX	4	24	7	0.203	0.20	0.55	3.9	94.2	18
1241055C24-TS2-XX	5	24	7	0.203	0.20	0.55	4.2	94.2	22
1241057C24-TS2-XX	7	24	7	0.203	0.20	0.55	4.5	94.2	28
12410512C24-TS2-XX	12	24	7	0.203	0.20	0.55	5.7	94.2	44
1241052C22-TS2-XX	2	22	7	0.254	0.22	0.55	3.8	59.4	16

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CABLES FOR EXTREMES

UL 20549

-40°C to +80°C, 300V



CASMO Part No.	Total Cores	Conductor			Nom. Ins. Thickness (mm)	Cable		Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
		Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)		Nom. Jkt. Thickness (mm)	Nom. O.D. (mm)		
1241053C22-TS2-XX	3	22	7	0.254	0.22	0.55	4.0	59.4	20
1241054C22-TS2-XX	4	22	7	0.254	0.22	0.55	4.3	59.4	25
1241055C22-TS2-XX	5	22	7	0.254	0.22	0.55	4.7	59.4	30
1241057C22-TS2-XX	7	22	7	0.254	0.22	0.55	5.1	59.4	38
12410512C22-TS2-XX	12	22	7	0.254	0.22	0.55	6.5	59.4	62
1241052C20-TS2-XX	2	20	26	0.16	0.23	0.55	4.2	36.7	20
1241053C20-TS2-XX	3	20	26	0.16	0.23	0.55	4.5	36.7	26
1241054C20-TS2-XX	4	20	26	0.16	0.23	0.55	4.8	36.7	33
1241055C20-TS2-XX	5	20	26	0.16	0.23	0.55	5.2	36.7	40
1241057C20-TS2-XX	7	20	26	0.16	0.23	0.55	5.7	36.7	52
12410512C20-TS2-XX	12	20	26	0.16	0.23	0.55	7.3	36.7	85
1241052C18-TS2-XX	2	18	41	0.16	0.25	0.60	4.9	23.9	28
1241053C18-TS2-XX	3	18	41	0.16	0.25	0.60	5.2	23.9	38
1241054C18-TS2-XX	4	18	41	0.16	0.25	0.60	5.6	23.9	48
1241055C18-TS2-XX	5	18	41	0.16	0.25	0.60	6.1	23.9	58
1241057C18-TS2-XX	7	18	41	0.16	0.25	0.60	6.6	23.9	77
1241052C16-TS2-XX	2	16	65	0.16	0.28	0.65	5.7	15.0	41
1241053C16-TS2-XX	3	16	65	0.16	0.28	0.65	6.0	15.0	56
1241054C16-TS2-XX	4	16	65	0.16	0.28	0.65	6.6	15.0	71
1241055C16-TS2-XX	5	16	65	0.16	0.28	0.65	7.2	15.0	86

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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