UL 20233

-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
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.

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)	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)		
1241042C24-TS2-XX	2	24	19	0.127	0.25	0.80	4.2	94.2	17
1241043C24-TS2-XX	3	24	19	0.127	0.25	0.80	4.4	94.2	21
1241044C24-TS2-XX	4	24	19	0.127	0.25	0.80	4.7	94.2	25
1241045C24-TS2-XX	5	24	19	0.127	0.25	0.80	5.0	94.2	30
1241047C24-TS2-XX	7	24	19	0.127	0.25	0.80	5.4	94.2	37
12410412C24-TS2-XX	12	24	19	0.127	0.25	0.80	6.8	94.2	57
1241042C22-TS2-XX	2	22	19	0.16	0.25	0.80	4.5	59.4	21
1241043C22-TS2-XX	3	22	19	0.16	0.25	0.80	4.7	59.4	27
1241044C22-TS2-XX	4	22	19	0.16	0.25	0.80	5.1	59.4	32
1241045C22-TS2-XX	5	22	19	0.16	0.25	0.80	5.5	59.4	38
1241047C22-TS2-XX	7	22	19	0.16	0.25	0.80	5.9	59.4	49
12410412C22-TS2-XX	12	22	19	0.16	0.25	0.80	7.4	59.4	77
1241042C20-TS2-XX	2	20	26	0.16	0.28	0.80	4.9	36.7	26

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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)		
1241043C20-TS2-XX	3	20	26	0.16	0.28	0.80	5.2	36.7	33
1241044C20-TS2-XX	4	20	26	0.16	0.28	0.80	5.6	36.7	40
1241045C20-TS2-XX	5	20	26	0.16	0.28	0.80	6.0	36.7	48
1241047C20-TS2-XX	7	20	26	0.16	0.28	0.80	6.5	36.7	62
12410412C20-TS2-XX	12	20	26	0.16	0.28	0.80	8.3	36.7	99
1241042C18-TS2-XX	2	18	41	0.16	0.30	0.85	5.6	23.9	35
1241043C18-TS2-XX	3	18	41	0.16	0.30	0.85	5.9	23.9	46
1241044C18-TS2-XX	4	18	41	0.16	0.30	0.85	6.3	23.9	57
1241045C18-TS2-XX	5	18	41	0.16	0.30	0.85	6.9	23.9	68
1241047C18-TS2-XX	7	18	41	0.16	0.30	0.85	7.4	23.9	89
12410412C18-TS2-XX	12	18	41	0.16	0.30	0.85	9.5	23.9	143
1241042C16-TS2-XX	2	16	65	0.16	0.35	0.90	6.5	15.0	50
1241043C16-TS2-XX	3	16	65	0.16	0.35	0.90	6.8	15.0	66
1241044C16-TS2-XX	4	16	65	0.16	0.35	0.90	7.4	15.0	82
1241045C16-TS2-XX	5	16	65	0.16	0.35	0.90	8.1	15.0	99
1241047C16-TS2-XX	7	16	65	0.16	0.35	0.90	8.7	15.0	131
1241042C14-TS2-XX	2	14	105	0.16	0.40	1.00	7.7	9.45	73
1241043C14-TS2-XX	3	14	105	0.16	0.40	1.00	8.2	9.45	99
1241044C14-TS2-XX	4	14	105	0.16	0.40	1.00	8.9	9.45	125
1241045C14-TS2-XX	5	14	105	0.16	0.40	1.00	9.7	9.45	152

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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