UL 20234

-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
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.

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)	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)		
1241112C20-TS2-XX	2	20	26	0.16	0.38	1.15	6.0	36.7	37
1241113C20-TS2-XX	3	20	26	0.16	0.38	1.15	6.3	36.7	45
1241114C20-TS2-XX	4	20	26	0.16	0.38	1.15	6.8	36.7	55
1241115C20-TS2-XX	5	20	26	0.16	0.38	1.15	7.3	36.7	64
1241117C20-TS2-XX	7	20	26	0.16	0.38	1.15	7.8	36.7	81
12411112C20-TS2-XX	12	20	26	0.16	0.38	1.15	9.8	36.7	127
1241112C18-TS2-XX	2	18	41	0.16	0.41	1.15	6.6	23.9	47
1241113C18-TS2-XX	3	18	41	0.16	0.41	1.15	7.0	23.9	59
1241114C18-TS2-XX	4	18	41	0.16	0.41	1.15	7.5	23.9	72
1241115C18-TS2-XX	5	18	41	0.16	0.41	1.15	8.1	23.9	85
1241117C18-TS2-XX	7	18	41	0.16	0.41	1.15	8.7	23.9	110
12411112C18-TS2-XX	12	18	41	0.16	0.41	1.15	11.0	23.9	174
1241112C16-TS2-XX	2	16	65	0.16	0.41	1.15	7.2	15.0	59

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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)		
1241113C16-TS2-XX	3	16	65	0.16	0.41	1.15	7.6	15.0	77
1241114C16-TS2-XX	4	16	65	0.16	0.41	1.15	8.2	15.0	95
1241115C16-TS2-XX	5	16	65	0.16	0.41	1.15	8.9	15.0	114
1241117C16-TS2-XX	7	16	65	0.16	0.41	1.15	9.6	15.0	149
12411112C16-TS2-XX	12	16	65	0.16	0.41	1.15	12.3	15.0	240
1241112C14-TS2-XX	2	14	41	0.254	0.45	1.15	8.2	9.45	81
1241113C14-TS2-XX	3	14	41	0.254	0.45	1.15	8.6	9.45	107
1241114C14-TS2-XX	4	14	41	0.254	0.45	1.15	9.4	9.45	135
1241115C14-TS2-XX	5	14	41	0.254	0.45	1.15	10.2	9.45	163
1241117C14-TS2-XX	7	14	41	0.254	0.45	1.15	11.0	9.45	215
12411112C14-TS2-XX	12	14	41	0.254	0.45	1.15	14.3	9.45	351
1241112C12-TS2-XX	2	12	65	0.254	0.50	1.20	9.5	5.94	114
1241113C12-TS2-XX	3	12	65	0.254	0.50	1.20	10.0	5.94	154
1241114C12-TS2-XX	4	12	65	0.254	0.50	1.20	10.9	5.94	195
1241115C12-TS2-XX	5	12	65	0.254	0.50	1.20	11.8	5.94	237
1241117C12-TS2-XX	7	12	65	0.254	0.50	1.20	12.9	5.94	317
12411112C12-TS2-XX	12	12	65	0.254	0.50	1.20	16.8	5.94	522
1241112C10-TS2-XX	2	10	105	0.254	0.60	1.25	11.2	3.75	169
1241113C10-TS2-XX	3	10	105	0.254	0.60	1.25	11.9	3.75	231
1241114C10-TS2-XX	4	10	105	0.254	0.60	1.25	13.0	3.75	296
1241115C10-TS2-XX	5	10	105	0.254	0.60	1.25	14.2	3.75	362
1241117C10-TS2-XX	7	10	105	0.254	0.60	1.25	15.5	3.75	487
12411112C10-TS2-XX	12	10	105	0.254	0.60	1.60	21.1	3.75	836

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

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COLOR CODE CHART					
Cond. #	**Color**	**Cond. #**	**Color**	**Cond. #**	**Color**
4	Green	8	Red/Black Stripe	12	Black/White Stripe

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