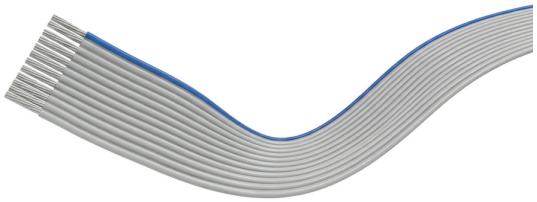
UL 20297

-40°C to +105°C, 150V



Construction
Conductor: Bare copper or Tin-plated copper
Core Insulation: Extruded · TPE
Cabling: Parallel · Parallel TPE insulated conductors extruded into a flat ribbon cable.
Core Identification: Grey ribbon with Blue polarity stripe on Core 1 (GB); Grey with Red Core-1 stripe (GR) or 10-colour Rainbow sequence (RW) optional.

Thermal Characteristics
Operating Temperature: -40°C to +105°C

Electrical Characteristics
Operating Voltage: 150V

Application
IDC & Board-to-Board Interconnects: Internal mass-termination (IDC) and discrete board-to-board wiring in computers, instrumentation, and industrial electronics.
Internal Appliance & Electronic Wiring: Compact flat routing in confined enclosures, hinged assemblies, and modular electronic sub-systems.

General Characteristics
Low-Temperature Flexibility: Maintains flexibility at low temperatures, facilitating cable routing and handling in cold environments.
Flexibility: Flexible construction facilitates routing, bending and installation where space is limited.
Precision Pitch Accuracy: Tightly controlled conductor-to-conductor spacing ensures reliable one-step IDC mass termination.

Standards & Approvals
UL 758: UL 758 Appliance Wiring Material, Style 20297.
CSA C22.2 No. 210: cUL Appliance Wiring Material, Class I Group A.
Halogen-Free: IEC 60754-1 / EN 50525-1 Annex B (Halogen-free TPE).

Fire Performance
Fire Retardant: VW-1 / FT1 / FT2

CASMO Part No.	Conductor				Insulation		Nom. Overall Thickness (mm)	Nom. Conductor Pitch (mm)	Pitch Tolerance ± (mm)	Max. DCR @20°C (Ω/km)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Conductor Dia. (mm)	Min. Ins. Thickness (mm)	Nom. Ins. Thickness (mm)				
452130/7-P0.635-TS2-XXP-GB	30	7	0.10	0.30	0.13	0.15	0.68	0.635	0.10	381
452128/7-P1.27-TS2-XXP-GB	28	7	0.127	0.39	0.15	0.18	0.90	1.27	0.12	239

Table Notes

* "-XXP" denotes total conductor count N (available from 4P to 64P; e.g., "-20P" = 20 conductors).

Please confirm application-specific requirements with CASMO before ordering. Specifications are subject to change; please ensure you are using the latest revision.

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CABLES FOR EXTREMES

UL 20297

-40°C to +105°C, 150V

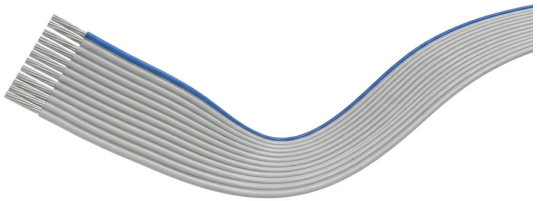


Table Notes (continued)

† "-TS2-" = tinned copper conductor with FT2 flame rating (standard). "-TS1-" = tinned copper conductor with VW-1 / FT1 flame rating (optional).

‡ Colour suffix: "-GB" = Grey ribbon with Blue Core-1 stripe (halogen-free TPE standard); "-GR" = Grey with Red Core-1 stripe, "-RW" = 10-colour Rainbow sequence (optional).

FINISHED RIBBON WIDTH CHART BY CONDUCTOR PITCH (mm)

Cores (-XXP)	P = 0.635 mm	P = 1.27 mm
6P	3.81 ± 0.20	7.62 ± 0.20
8P	5.08 ± 0.20	10.16 ± 0.20
10P	6.35 ± 0.20	12.70 ± 0.20
14P	8.89 ± 0.20	17.78 ± 0.20
16P	10.16 ± 0.20	20.32 ± 0.20
20P	12.70 ± 0.20	25.40 ± 0.20
26P	16.51 ± 0.20	33.02 ± 0.25
34P	21.59 ± 0.25	43.18 ± 0.25
40P	25.40 ± 0.25	50.80 ± 0.30
50P	31.75 ± 0.25	63.50 ± 0.35
60P	38.10 ± 0.25	76.20 ± 0.40
64P	40.64 ± 0.25	81.28 ± 0.40

Other conductor counts (N, 4P to 64P): Finished width W = Pitch × N. Width tolerance: ±0.20 mm (N ≤ 30 at 0.635 mm; N ≤ 20 at 1.27 mm), ±0.25 mm (N ≥ 31 at 0.635 mm; N = 21–39 at 1.27 mm), ±0.30 mm (N = 40–49 at 1.27 mm), ±0.35 mm (N = 50–59 at 1.27 mm), ±0.40 mm (N ≥ 60 at 1.27 mm).

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