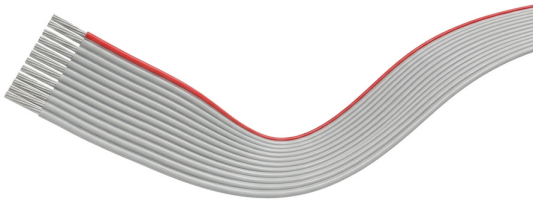
casmocable
CABLES FOR EXTREMES

UL 20596

-20°C to +105°C, 150V



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

Thermal Characteristics
Operating Temperature: -20°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
Fine-Pitch High-Density Profile: Miniature flat ribbon geometry maximizes circuit density in space-constrained electronic assemblies.
Precision Pitch Accuracy: Tightly controlled conductor-to-conductor spacing ensures reliable one-step IDC mass termination.
Clean Zippable Separation: Parallel bonded cores separate cleanly without conductor exposure for easy branching and discrete breakout.

Standards & Approvals
UL 758: UL 758 Appliance Wiring Material, Style 20596.
CSA C22.2 No. 210: cUL Appliance Wiring Material, Class I Group A, FT1.

Fire Performance
Fire Retardant: VW-1 / FT1

RoHS COMPLIANT · REACH COMPLIANT

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)				
450530/7-P0.635-TS-XXP-GR	30	7	0.10	0.30	0.15	0.18	0.68	0.635	0.10	381

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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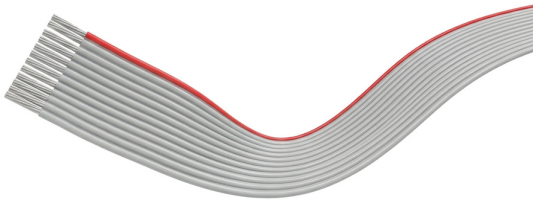


Table Notes (continued)

† "-TS-" = tinned copper conductor, "-AS-" = bare copper conductor.

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

FINISHED RIBBON WIDTH CHART — PITCH 0.635 mm (mm)

Cores (-XXP)	Overall Width W (mm)	Cores (-XXP)	Overall Width W (mm)	Cores (-XXP)	Overall Width W (mm)
6P	3.81 ± 0.20	**20P**	12.70 ± 0.20	**40P**	25.40 ± 0.25
10P	6.35 ± 0.20	**26P**	16.51 ± 0.20	**50P**	31.75 ± 0.25
14P	8.89 ± 0.20	**30P**	19.05 ± 0.20	**60P**	38.10 ± 0.25
16P	10.16 ± 0.20	**34P**	21.59 ± 0.25	**64P**	40.64 ± 0.25

Other conductor counts (N, 4P to 64P): Finished width W = 0.635 × N. Width tolerance: ±0.20 mm (N ≤ 30), ±0.25 mm (N ≥ 31).

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