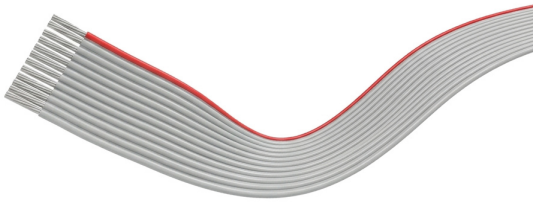
casmocable
CABLES FOR EXTREMES

UL 2651

-20°C to +105°C, 300V



Construction
Conductor: Bare copper or Tin-plated copper or Silver Plated Copper
Core Insulation: Extruded · PVC
Cabling: Parallel · Parallel insulated conductors extruded or thermally bonded into a flat ribbon cable (webbed or round edge).
Core Identification: Grey ribbon with Red polarity stripe on Core 1 (GR); 10-colour Rainbow sequence (RW), Black with White Core-1 stripe (BW), or All-Black (BK) optional.

Thermal Characteristics
Operating Temperature: -20°C to +105°C

Electrical Characteristics
Operating Voltage: 300V

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
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.
Low-Profile Flat Routing: Flat ribbon geometry folds and routes neatly through narrow slots, hinges, and compact enclosures.

Standards & Approvals
UL 758: UL 758 Appliance Wiring Material, Style 2651.
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)				
450130/7-P0.80-TS-XXP-GR	30	7	0.10	0.30	0.18	0.23	0.80	0.80	0.10	381
450130/7-P1.00-TS-XXP-GR	30	7	0.10	0.30	0.18	0.23	0.80	1.00	0.15	381
450130/7-P1.27-TS-XXP-GR	30	7	0.10	0.30	0.18	0.23	0.80	1.27	0.15	381

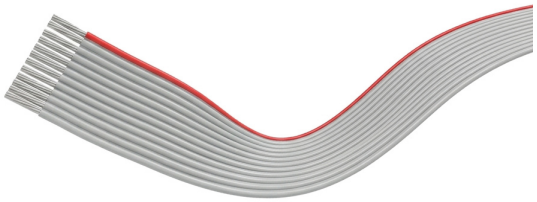
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CASMO Part No.	Conductor				Insulation		Nom. Overall Thickness (mm)	Nom. Conductor Pitch (mm)	Pitch Tolerance ± (mm)	Max. DCR @20°C (Ω/km)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Conductor Dia. (mm)	Min. Ins. Thickness (mm)	Nom. Ins. Thickness (mm)				
450128/7-P1.00-TS-XXP-GR	28	7	0.127	0.39	0.18	0.23	0.90	1.00	0.15	239
450128/7-P1.27-TS-XXP-GR	28	7	0.127	0.39	0.18	0.23	0.90	1.27	0.15	239
450128/19-P1.27-TS-XXP-GR	28	19	0.08	0.40	0.18	0.23	0.90	1.27	0.15	239
450128/7-P2.00-TS-XXP-GR	28	7	0.127	0.39	0.18	0.23	0.90	2.00	0.15	239
450128/7-P2.54-TS-XXP-GR	28	7	0.127	0.39	0.18	0.23	0.90	2.54	0.15	239
450126/7-P1.00-TS-XXP-GR	26	7	0.16	0.48	0.18	0.23	1.00	1.00	0.15	150
450126/7-P1.27-TS-XXP-GR	26	7	0.16	0.48	0.18	0.23	1.00	1.27	0.15	150
450124/7-P1.27-TS-XXP-GR	24	7	0.203	0.61	0.18	0.23	1.20	1.27	0.15	94.2
450124/7-P2.54-TS-XXP-GR	24	7	0.203	0.62	0.18	0.23	1.20	2.54	0.15	94.2

Table Notes

* "-XXP" denotes total conductor count N (available from 2P to 64P; e.g., "-10P" = 10 conductors). Standard IDC counts: 6, 8, 10, 14, 16, 20, 24, 26, 30, 34, 40, 50, 60, 64.

† "-TS-" = tinned copper conductor (standard), "-AS-" = bare copper conductor, "-SS-" = silver-plated copper conductor (available for 28/19 high-flex); -40°C cold-resistant PVC grade available on request.

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

FINISHED RIBBON WIDTH CHART BY CONDUCTOR PITCH (mm)					
Cores (-XXP)	P = 0.80 mm	P = 1.00 mm	P = 1.27 mm	P = 2.00 mm	P = 2.54 mm
6P	4.80 ± 0.20	6.00 ± 0.20	7.62 ± 0.20	12.00 ± 0.20	15.24 ± 0.20
8P	6.40 ± 0.20	8.00 ± 0.20	10.16 ± 0.20	16.00 ± 0.20	20.32 ± 0.20
10P	8.00 ± 0.20	10.00 ± 0.20	12.70 ± 0.20	20.00 ± 0.20	25.40 ± 0.20

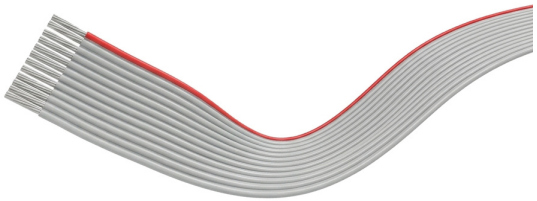
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FINISHED RIBBON WIDTH CHART BY CONDUCTOR PITCH (mm)					
Cores (-XXP)	**P = 0.80 mm**	**P = 1.00 mm**	**P = 1.27 mm**	**P = 2.00 mm**	**P = 2.54 mm**
14P	11.20 ± 0.20	14.00 ± 0.20	17.78 ± 0.20	28.00 ± 0.20	35.56 ± 0.20
16P	12.80 ± 0.20	16.00 ± 0.20	20.32 ± 0.20	32.00 ± 0.20	40.64 ± 0.20
20P	16.00 ± 0.20	20.00 ± 0.20	25.40 ± 0.20	40.00 ± 0.20	50.80 ± 0.20
26P	20.80 ± 0.25	26.00 ± 0.25	33.02 ± 0.25	52.00 ± 0.25	66.04 ± 0.25
34P	27.20 ± 0.25	34.00 ± 0.25	43.18 ± 0.25	68.00 ± 0.25	86.36 ± 0.25
40P	32.00 ± 0.30	40.00 ± 0.30	50.80 ± 0.30	80.00 ± 0.30	101.60 ± 0.30
50P	40.00 ± 0.35	50.00 ± 0.35	63.50 ± 0.35	100.00 ± 0.35	—
60P	48.00 ± 0.40	60.00 ± 0.40	76.20 ± 0.40	—	—
64P	51.20 ± 0.40	64.00 ± 0.40	81.28 ± 0.40	—	—

Other conductor counts (N, 2P to 64P): Standard webbed edge W = Pitch × N (Round-edge construction: W = Pitch × (N − 1) + Overall Thickness). Width tolerance: ±0.20 mm (N ≤ 20), ±0.25 mm (N = 21–39), ±0.30 mm (N = 40–49), ±0.35 mm (N = 50–59), ±0.40 mm (N ≥ 60).

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