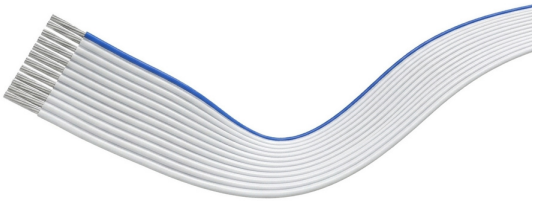
UL 2468

-20°C to +80°C, 300V



Construction
Conductor: Bare copper or Tin-plated copper
Core Insulation: Extruded · PVC
Cabling: Parallel · Parallel extruded PVC insulated conductors bonded into a flat twin or multi-conductor ribbon cable.
Core Identification: White ribbon with Blue (WB) or Red (WR) polarity markings, Black with White Core-1 stripe (BW), or Red/Black parallel zip cord (RB).

Thermal Characteristics
Operating Temperature: -20°C to +80°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
Clean Zippable Separation: Parallel bonded cores separate cleanly without conductor exposure for easy branching and discrete breakout.
Clear Polarity & Circuit Coding: Distinct polarity stripe or multi-color sequence simplifies pin-1 alignment and harness inspection.
Flexibility: Flexible construction facilitates routing, bending and installation where space is limited.

Standards & Approvals
UL 758: UL 758 Appliance Wiring Material, Style 2468.
CSA C22.2 No. 210: cUL Appliance Wiring Material, Class I Group A, FT1.

Fire Performance
Fire Retardant: VW-1 / FT1

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)				
450228/7-P1.30-TS-XXP-WB	28	7	0.127	0.39	0.33	0.38	1.30	1.30	0.15	239
450226/7-P1.50-TS-XXP-WB	26	7	0.16	0.48	0.33	0.38	1.40	1.50	0.15	150
450226/7-P2.00-TS-XXP-WB	26	7	0.16	0.48	0.33	0.38	1.50	2.00	0.10	150

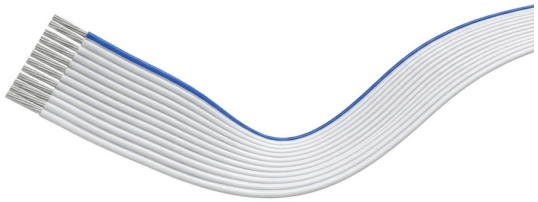
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CABLES FOR EXTREMES

UL 2468

-20°C to +80°C, 300V



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)				
450224/11-P1.50-TS-XXP-WB	24	11	0.16	0.61	0.33	0.38	1.50	1.50	0.15	94.2
450222/17-P1.70-TS-XXP-WB	22	17	0.16	0.76	0.33	0.38	1.70	1.70	0.15	59.4
450220/21-P1.80-TS-XXP-WB	20	21	0.178	0.94	0.33	0.38	1.80	1.80	0.15	36.7
450220/16-P1.85-TS-XXP-WB	20	16	0.203	0.94	0.33	0.38	1.80	1.85	0.15	36.7

Table Notes

* "-XXP" denotes total conductor count N (available from 2P to 40P; e.g., "-2P" = 2-conductor zip cord, "-12P" = 12-conductor flat ribbon).

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

‡ Colour suffix: "-WB" = White ribbon with Blue polarity markings (standard); "-WR" = White with Red polarity markings, "-BW" = Black with White Core-1 stripe, "-RB" = Red/Black parallel zip cord (optional).

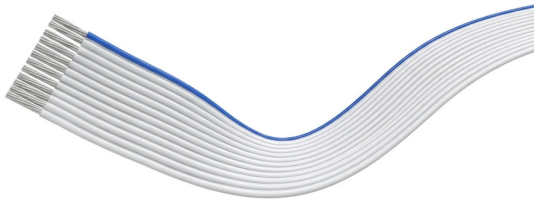
FINISHED RIBBON WIDTH CHART BY CONDUCTOR PITCH (mm)						
Cores (-XXP)	P = 1.30 mm	P = 1.50 mm	P = 1.70 mm	P = 1.80 mm	P = 1.85 mm	P = 2.00 mm
2P	2.60 ± 0.20	3.00 ± 0.20	3.40 ± 0.20	3.60 ± 0.20	3.70 ± 0.20	4.00 ± 0.20
3P	3.90 ± 0.20	4.50 ± 0.20	5.10 ± 0.20	5.40 ± 0.20	5.55 ± 0.20	6.00 ± 0.20
4P	5.20 ± 0.20	6.00 ± 0.20	6.80 ± 0.20	7.20 ± 0.20	7.40 ± 0.20	8.00 ± 0.20
5P	6.50 ± 0.20	7.50 ± 0.20	8.50 ± 0.20	9.00 ± 0.20	9.25 ± 0.20	10.00 ± 0.20
6P	7.80 ± 0.20	9.00 ± 0.20	10.20 ± 0.20	10.80 ± 0.20	11.10 ± 0.20	12.00 ± 0.20
8P	10.40 ± 0.20	12.00 ± 0.20	13.60 ± 0.20	14.40 ± 0.20	14.80 ± 0.20	16.00 ± 0.20
10P	13.00 ± 0.20	15.00 ± 0.20	17.00 ± 0.20	18.00 ± 0.20	18.50 ± 0.20	20.00 ± 0.20
12P	15.60 ± 0.25	18.00 ± 0.25	20.40 ± 0.25	21.60 ± 0.25	22.20 ± 0.25	24.00 ± 0.25
16P	20.80 ± 0.25	24.00 ± 0.25	27.20 ± 0.25	28.80 ± 0.25	29.60 ± 0.25	32.00 ± 0.25

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UL 2468

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FINISHED RIBBON WIDTH CHART BY CONDUCTOR PITCH (mm)						
Cores (-XXP)	**P = 1.30 mm**	**P = 1.50 mm**	**P = 1.70 mm**	**P = 1.80 mm**	**P = 1.85 mm**	**P = 2.00 mm**
20P	26.00 ± 0.25	30.00 ± 0.25	34.00 ± 0.25	36.00 ± 0.25	37.00 ± 0.25	40.00 ± 0.25
24P	31.20 ± 0.30	36.00 ± 0.30	40.80 ± 0.30	43.20 ± 0.30	44.40 ± 0.30	48.00 ± 0.30
40P	52.00 ± 0.30	60.00 ± 0.30	68.00 ± 0.30	72.00 ± 0.30	74.00 ± 0.30	80.00 ± 0.30

Other conductor counts (N, 2P to 40P): Standard webbed ribbon W = Pitch × N (Round-edge twin/zip construction: W = Pitch × (N − 1) + Overall Thickness; e.g., 26 AWG P2.00 2P = 3.50 ± 0.15 mm). Width tolerance: ±0.20 mm (24–28 AWG, N ≤ 10), ±0.25 mm (24–28 AWG, N ≥ 11; 20–22 AWG, N ≤ 10), ±0.30 mm (20–22 AWG, N ≥ 11).

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