



UL Style: 2678 / 2651

UL Temp: 105°C

UL2678: 150V, UL2651: 300V

CSA Style: AWM I A/B FT- 1

CSA Voltage Rating: 150V/300V

CSA Temp: 105°C

Easy IDC termination

Pitch tolerance ± .002 inches (± 0.050 mm)

0.0333" (.845 mm) and 1mm pitch for hard drives

Solid electrical performance in a low cost design

Manufactured with 30 and 28 AWG stranded tinned copper

APPLICATIONS Disk drives

REACH and RoHS 2 compliant

PHYSICAL CONSTRUCTION DESCRIPTION HCA's series 23124, 23147 and 20057 are constructed with stranded tinned copper. Conductors are fully extruded with flexible gray PVC compound.

23147 Pitch: 0.039 in (1.0 mm)

- 23147 - XX - P - 00YYY
- Conductor AWG: 30 7/38 AWG TC
- Insulation: PVC
- Conductor Resistance ohms/1000 ft (ohms/Km): 106 (347.68)
- Capacitance Ground-Signal (G-S) pF/ft (pF/m): 10.03 (32.89)
 - (G-S-G) pF/ft (pF/m): 16.71 (54.8)
- Impedance (G-S-G) SE - Single End: 100 ohms
 - (G-S) Differential: 140 ohms
- Propagation Delay Nanoseconds/ft (ns/m): 1.46 (4.78)
 - Maximum Skew ns/ft (ns/m): 0.025 (0.082)

	Part Number	# of Conductors	Put-Up	Width "W" Span "S"
Example 1	23147- 44 - P - 00100	44	100 ft 30.48 m	Width: 1.100 in (27.94 mm)
				Span: 1.075 in (27.30 mm)
Example 2	23147 - 50 - P - 00100	50	100 ft 30.48 m	Width: 1.250 in (31.75 mm)
				Span: 1.225 in (31.11 mm)

Building a Part Number

Part Number Format	23147 - XX - P - 00YYY	XX	00YYY	Width: XX * .039 in Span: XX* .039 in - .039
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XX= No. of conductors: 10, 20, 34, 40, 50

YYY = Put-Up (ft.): 100

20057 Pitch: 0.039 in (1.0 mm)

- 20057 - XX - P - 00YYY
- Conductor AWG: 28 7/36 AWG TC
- Insulation: PVC
- Conductor Resistance ohms/1000 ft (ohms/Km): 67.5 (221.40)
- Capacitance Ground-Signal (G-S) pF/ft (pF/m): 12.3 (40.3)
 - (G-S-G) pF/ft (pF/m): 22.1 (72.4)
- Impedance (G-S-G) SE - Single End: 90 ohms
 - (G-S) Differential: 125 ohms
- Propagation Delay Nanoseconds/ft (ns/m): 1.46 (4.78)
 - Maximum Skew ns/ft (ns/m): 0.050 (0.164)

	Part Number	# of Conductors	Put-Up	Width "W" Span "S"
Example 1	20057- 10 - P - 00100	10	100 ft 30.48 m	Width: 0.250 in (6.30 mm)
				Span: 0.225 in (5.72 mm)
Example 2	20057- 50 - P - 00100	50	100 ft 30.48 m	Width: 2.00 in (50.80 mm)
				Span: 1.975 in (50.16 mm)

Building a Part Number

Part Number Format	20057 - XX - P - 00YYY	XX	00YYY	Width: XX * .039 in Span: XX* .039 in - .039
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XX= No. of conductors: 96, other conductor counts available upon request

YYY = Put-Up (ft.): 100

23124 Pitch: 0.033 in (0.845 mm)

- 23124 - XX - P - 00YYY
- Conductor AWG: 30 7/38 AWG TC
- Insulation: PVC
- Conductor Resistance ohms/1000 ft (ohms/Km): 106 (347.68)
- Capacitance Ground-Signal (G-S) pF/ft (pF/m): 14.4 (47.23)
 - (G-S-G) pF/ft (pF/m): 22.5 (73.8)
- Impedance (G-S-G) SE - Single End: 89.3 ohms
 - (G-S) Differential: 136.2 ohms
- Propagation Delay Nanoseconds/ft (ns/m): 1.57 (5.14)
 - Maximum Skew ns/ft (ns/m): 0.06 (0.19)

	Part Number	# of Conductors	Put-Up	Width "W" Span "S"
Example 1	23124- 96 - P - 00100	96	100 ft 30.48 m	Width: 2.400 in (60.96 mm)
				Span: 2.375 in (60.32 mm)

Building a Part Number

Part Number Format	23124 - XX - P - 00YYY	XX	00YYY	Width: XX * .033 in Span: XX* .033 in - .033
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XX= No. of conductors: 96, other conductor counts available upon request

YYY = Put-Up (ft.): 100

Other conductor counts and put-ups available upon request. All data is for reference only and is subject to change.