



UL Style: 20848\*  
UL Voltage Rating: 150V  
UL Temp: 105°C

CSA Style: AWM I A/B FT- 1  
CSA Voltage Rating: 150V  
CSA Temp: 105°C

<i>Tightest pitch tolerance in the industry</i>
<i>Solid conductor construction for lower cost and higher impedance</i>
<i>Operating temperature: -50 deg C to +105 deg C</i>
<i>APPLICATIONS Ultra ATA 133 and Ultra 160 SCSI, backwards compatible</i>
<i>Internal interconnections for electronic equipment</i>
<i>REACH and RoHS 2 compliant</i>

**PHYSICAL CONSTRUCTION DESCRIPTION** These Microzip cables utilize 30 AWG solid or stranded copper extruded with Thermoplastic Olefin (TPO). A polarity stripe is co-extruded into position number one for easy identification and the stripe will not rub off. Standard color is light yellow with a red polarity stripe for 30 AWG and a violet polarity stripe for 32 AWG. Pitch Tolerance  $\pm .0016$  inches ( $\pm .040$  mm).

### 23196 Pitch: 0.025 in (0.635 mm)

- 23196 - XX - P - 00YYY
- Conductor AWG: 30 7/38 AWG TC
- Insulation: TPO
- Conductor Resistance ohms/1000 ft (ohms/Km): 106 (347.68)
- Capacitance Ground-Signal (G-S) pF/ft (pF/m): 15.7(51.5)
  - (G-S-G) pF/ft (pF/m): 25 (82)
- Impedance (G-S-G) SE - Single End: 82 ohms
  - (G-S) Differential: 123 ohms
- Propagation Delay Nanoseconds/ft (ns/m): 1.44 (4.72)
- Maximum Skew ns/ft (ns/m): 0.030 (0.098)

	Part Number	# of Conductors	Put-Up	Width "W" Span "S"
Example 1	23196 - 26 - P - 00100	26	100 ft 30.48 m	Width: 0.650 in (16.51 mm)
				Span: 0.625 in (15.87 mm)
Example 2	23196 - 80 - P - 00100	80	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	23196 - XX - P - 00YYY	XX	00YYY	Width: XX * .025 in Span: XX * .025 in - .025
--------------------	------------------------	----	-------	--

XX= No. of conductors: 26, 34, 40, 50, 64, 68, 80  
YYY = Put-Up (ft.): 100

### 23203 Pitch: 0.025 in (0.635 mm)

- 23203 - XX - P - 00YYY
- Conductor AWG: 30 1/30 AWG SC
- Insulation: TPE
- Conductor Resistance ohms/1000 ft (ohms/Km): 104 (341.12)
- Capacitance Ground-Signal (G-S) pF/ft (pF/m): 9.1 (29.84)
  - (G-S-G) pF/ft (pF/m): 15.5 (50.84)
- Impedance (G-S-G) SE - Single End: 90 ohms
  - (G-S) Differential: 130 ohms
- Propagation Delay Nanoseconds/ft (ns/m): 1.45 (4.75)
- Maximum Skew ns/ft (ns/m): 0.025 (0.082)

	Part Number	# of Conductors	Put-Up	Width "W" Span "S"
Example 1	23203 - 34 - P - 00100	34	100 ft 30.48 m	Width: 0.850 in (21.59 mm)
				Span: 0.825 in (20.95 mm)
Example 2	23203 - 80 - P - 00200	80	200 ft 60.96 m	Width: 2.00 in (50.80 mm)
				Span: 1.975 in (50.16 mm)

#### Building a Part Number

Part Number Format	23203 - XX - P - 00YYY	XX	00YYY	Width: XX * .025 in Span: XX * .025 in - .025
--------------------	------------------------	----	-------	--

XX= No. of conductors: 34, 50, 68, 80  
YYY = Put-Up (ft.): 100, 400

Other conductor counts and put-ups available upon request. Other variations include 24 AWG and 26 AWG cables.

\*Series 23196 and 23203 also offered as UL AWM 150V solutions (20647) upon special request