

# TPO Stranded Flat Ribbon

0.050 inch (1.27 mm)

UL Style: 20346  
 UL Voltage Rating: 300V  
 UL Temp: 105°C

CSA listing: AWM I A/B FT-1  
 CSA Voltage Rating: 300V  
 CSA Temp: 105°C

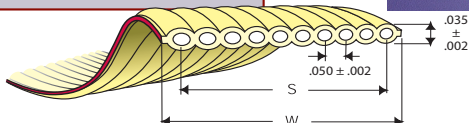
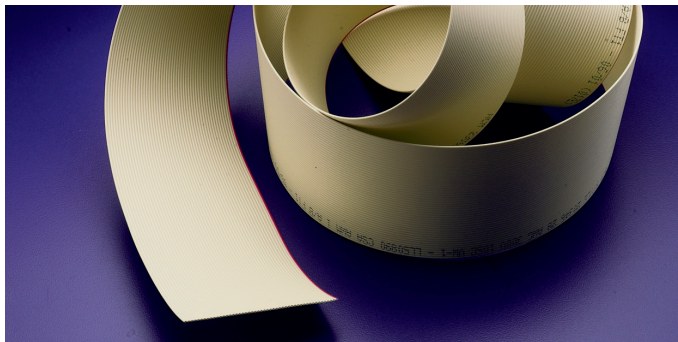
TPO insulated for superior electrical performance, i.e. high impedance and low capacitance

Outstanding low temperature characteristics

Improved heat aging over conventional PVC

Available in other wire sizes

APPLICATIONS Ideal for higher controlled impedance signals



**PHYSICAL CONSTRUCTION DESCRIPTION** This 0.050 inch (1.27mm) flat ribbon cable is constructed with 28 AWG stranded tinned copper then fully extruded with a Thermoplastic Olefin (TPO). A red stripe is applied for polarity identification.

## 23065 Pitch: 0.050 in (1.27 mm)

- 23065 - XX - P - 00YYY
- Conductor AWG: 28 7/36 AWG TC
- Insulation: TPO
- Conductor Resistance ohms/1000 ft (ohms/Km): 67.5 (221.4)
- Capacitance Ground-Signal (G-S) pF/ft (pF/m): 5.60 (18.3)
  - (G-S-G) pF/ft (pF/m): 9.70 (31.81)
- Impedance (G-S-G) SE - Single End: 106 ohms
  - (G-S) Differential: 145 ohms
- Propagation Delay Nanoseconds/ft (ns/m): 1.26 (4.13)
- Maximum Skew ns/ft (ns/m): 0.020 (0.065)

	Part Number	# of Conductors	Put-Up	Width "W" Span "S"
Example 1	23065- 20 - P - 00100	20	100 ft 30.48 m	Width: 0.500 in (12.70 mm) Span: 0.475 in (12.06 mm)
Example 2	23065- 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	23065- XX - P - 00YYY	XX	00YYY	Width: XX * .050 in Span: XX* .050 in - .050
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XX= No. of conductors: 20, 34, 40, 50  
 YYY = Put-Up (ft.): 100

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