

# 0.050" TPO Stranded Flat Ribbon

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



RED POLARITY STRIPE ON #1 COND EDGE.

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

Outstanding low temperature characteristics.

Improved heat aging over conventional PVC.

Alternate gauges also available.

**APPLICATIONS** Ideal for higher controlled impedance environments.

Eco-Index: RoHS Values

<90ppm   <5ppm   <5ppm   <5ppm   <1000ppm

Pb   Cd   Cr+6   Hg   PBDE's  
PPB's



**PHYSICAL CONSTRUCTION DESCRIPTION** This 0.050" flat ribbon cable is constructed with 28 AWG stranded tinned copper then fully extruded with a Thermoplastic Olefin (TPO). A red co-extruded stripe is applied in lieu of ink to prevent flaking.

| Series No. | Conductor AWG Stranding Coating | Insulation | Conductor Resistance $\Omega$ /Mft. @ 20°C | Capacitance  |                | Impedance         |                    | Propagation Delay |                    |
|------------|---------------------------------|------------|--|--------------|----------------|-------------------|--------------------|-------------------|--------------------|
|            |                                 |            |  | pF/ft. (G-S) | pF/ft. (G-S-G) | (G-S-G) (Ohms) SE | (G-S) (Ohms) Diff. | ns/ft.            | Skew ns/ft. (Max.) |
| 23065      | 28 AWG 7/36 TC                  | TPO        | 67.5                                       | 5.60         | 9.70           | 145               | 106                | 1.26              | 0.020              |

| Part No.         | Insulation | No. of Conductors | Width "W" | Span "S"            | Pitch Tolerance | Standard Put-ups |
|------------------|------------|-------------------|-----------|---------------------|-----------------|------------------|
| 23065-20-P-00100 | TPO        | 20                | 1.000"    | 0.950" $\pm$ 0.008" | $\pm$ 0.002"    | 100'             |
| 23065-34-P-00100 | TPO        | 34                | 1.700"    | 1.650" $\pm$ 0.011" | $\pm$ 0.002"    | 100'             |
| 23065-40-P-00100 | TPO        | 40                | 2.000"    | 1.950" $\pm$ 0.011" | $\pm$ 0.002"    | 100'             |
| 23065-50-P-00100 | TPO        | 50                | 2.500"    | 2.450" $\pm$ 0.011" | $\pm$ 0.002"    | 100'             |

Other conductor counts available upon request. Other variations include 24 AWG and 26 AWG cables. All data is for reference only and is subject to change.