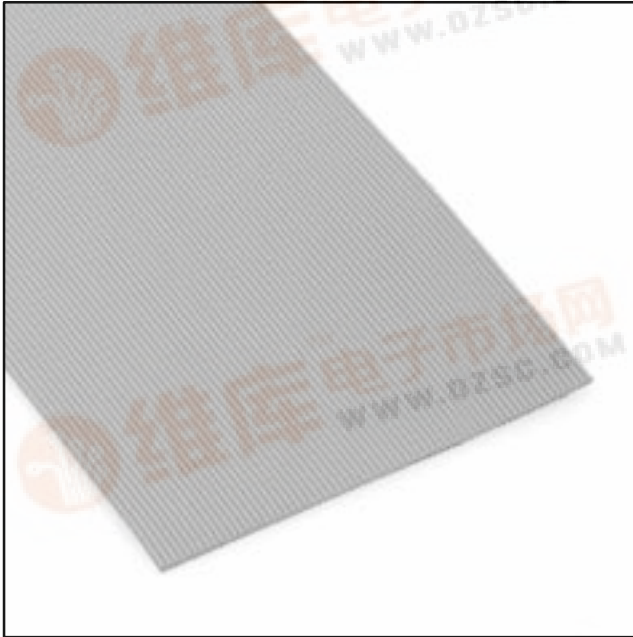


.025" Round Conductor Flat Cable

30 AWG Solid, TPE

3749 Series



- Close spacing permits higher signal density
- TPE insulation provides excellent transmission properties
- 30 AWG solid conductors on .025 inch spacing allows for mass termination
- Zippable for branching or discrete termination
- Meets SCSI-3 Fast-20 characteristic impedance requirements

Date Modified: February 19, 1999

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Physical

Insulation

Material: Thermoplastic Elastomer (TPE)
Color: Gray

Marking

Standard: None

Canadian Option:  AWM 20297 105C 150V VW1 3M NU  AWM IA 105C 150V FT1
EU <50V

Conductors: 30 AWG [0.254] Tinned Solid Copper

Electrical

Voltage Rating: USA: 150 V Canada: 150V EU: <50V

Insulation Resistance: $> 1 \times 10^{10} \Omega/10 \text{ ft. [3m]}$

Characteristic Impedance Unbalanced: 90 Ω

Capacitance Unbalanced: 16.5 pF/ft. [54.1 pF/m]

Inductance Unbalanced: .13 $\mu\text{H/ft. [0.43 } \mu\text{H/m]}$

Propagation Delay Unbalanced: 1.48 ns/ft. [4.86 ns/m]

Velocity of Propagation Unbalanced: 69%

Note: Unbalanced is measured between ground-signal-ground conductors.

Environmental

Temperature Rating: -40°C to +105°C

Flammability Rating: USA: VW-1 Canada: FT1



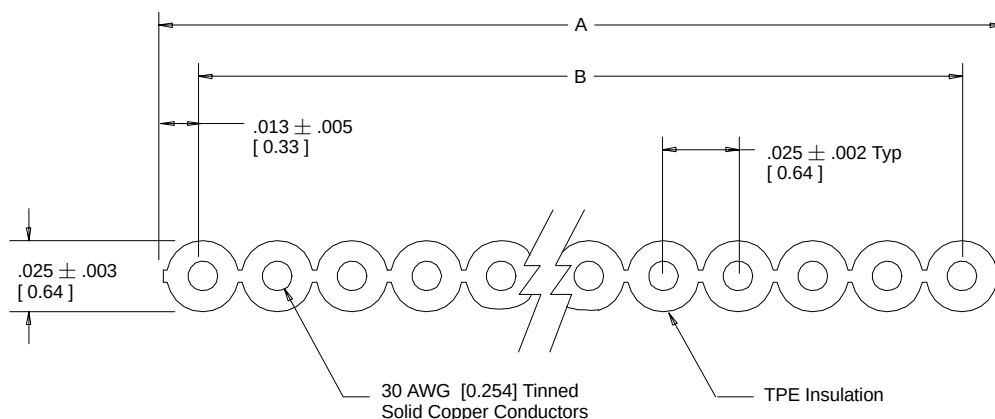
.025" Round Conductor Flat Cable

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Number of Conductors	3M Part Number	Dimension A	Dimension B
20	3749/20	0.500 ± .006 [12.70]	0.475 ± .004 [12.07]
26	3749/26	0.650 ± .006 [16.51]	0.625 ± .004 [15.88]
34	3749/34	0.850 ± .009 [21.59]	0.825 ± .006 [20.96]
36	3749/36	0.900 ± .009 [22.86]	0.875 ± .006 [22.23]
40	3749/40	1.000 ± .009 [25.40]	0.975 ± .006 [24.77]
50	3749/50	1.250 ± .009 [31.75]	1.225 ± .006 [31.12]
60	3749/60	1.500 ± .012 [38.10]	1.475 ± .009 [37.47]
68	3749/68	1.700 ± .012 [43.18]	1.675 ± .009 [42.55]
80	3749/80	2.000 ± .015 [50.80]	1.975 ± .011 [50.17]
100	3749/100	2.500 ± .015 [63.50]	2.475 ± .012 [62.87]



Note:

1. Blue marking on one edge of cable designates wire #1.

Inch
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	± .1	± .01	± .005

[] Dimensions for Reference only

Ordering Information

3749/XX

Blank = Standard
C = Canadian Certified Version

Number of Conductors
(See Table)

Note:

2. Available in standard lengths of 100 feet or 300 feet per roll, please specify when ordering.

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