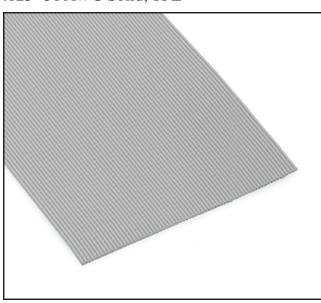
3M[™] Round Conductor Flat Cable

.025" 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
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: March 15, 2010

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Physical

Insulation:

Material: Thermoplastic Elastomer (TPE)

Color: Gray

Marking:

Standard: None

Canadian Option: AWM 20297 105C 150V HB 3M NU

C **%** AWM IA 105C 150V FT2 EU <50V

Conductors: 30 AWG [Ø 0.254] Tinned Solid Copper

Electrical

Voltage Rating: USA: 150V Canada: 150V

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

Unbalanced

Characteristic Impedance: 90Ω

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

Inductance: $0.13 \,\mu\text{H/ft} \,[\, 0.43 \,\mu\text{H/m} \,]$

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

Velocity of Propagation: 69%

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

Environmental

Temperature Rating: -40°C to +105°C

Flammability Rating: USA: UL Horizontal Canada: FT2

UL File No.: E42769, Style No: 20297

3M

Interconnect Solutions
http://www.3Mconnector.com

3M is a trademark of 3M Company. For technical, sales or ordering information call 800-225-5373 .025" 30 AWG Solid, TPE

3749 Series

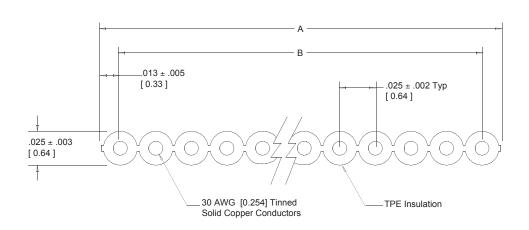


Inch [mm]

[1				
Tolerance Unless Noted				
	.0	.00	.000	
Inch	±.1	±.05	±.010	

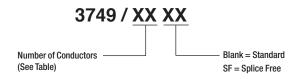
[] Dimensions for Reference Only

Number of Conductors	3M Part Number	Dimension A	Dimension B	
10	3749/10	0.250 +/006 [6.35]	0.225 +/004 [5.72]	
16	3749/16	0.400 +/006 [10.16]	0.375 +/004 [9.53]	
20	3749/20	0.500 ± .006 [12.70]	0.475 ± .004 [12.07]	
24	3749/24	0.600 +/006 [15.24]	0.575 +/004 [14.61]	
26	3749/26	0.650 ± .006 [16.51]	0.625 ± .004 [15.88]	
30	3749/30	0.750 +/009 [19.05]	0.725 +/006 [18.42]	
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: Blue marking on one edge of cable designates wire #1.

Ordering Information



Note: Available in standard 100 ft or 300 ft rolls, please specify when ordering. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

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