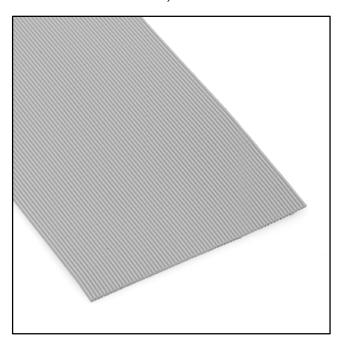
# 3M<sup>™</sup> Round Conductor Flat Cable

.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

Date Modified: May 30, 2003

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# **Physical**

Insulation

Material: Thermoplastic Elastomer (TPE)

Color: Gray **Marking**Standard: None

Canadian Option: NA AWM 20297 105C 150V VW1 3M NU CN 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:  $> 1 \times 10^{10}~\Omega/10~{\rm ft.}$  [ 3m ] Characteristic Impedance: Unbalanced: 90  $\Omega$ 

Capacitance:Unbalanced:16.5 pF/ft. [ 54.1 pF/m ]Inductance:Unbalanced:.13 μH/ft. [ 0.43 μH/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**

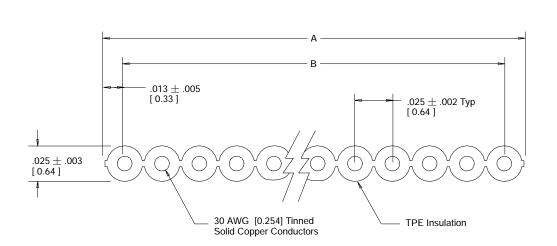
**Temperature Rating:**  $-40^{\circ}$ C to  $+105^{\circ}$ C

Flammability Rating: USA: VW-1 Canada: FT1

UL File No.: E42769, Style No.: 20297

Number of	3M Part		
Number of Conductors	SM 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 ]





#### Inch [mm]

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

[ ] Dimensions for Reference only

#### Note

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

## **Ordering Information**

Blank = Standard Number of Conductors
C = Canadian Certified (See Table)
Version

Note:

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

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