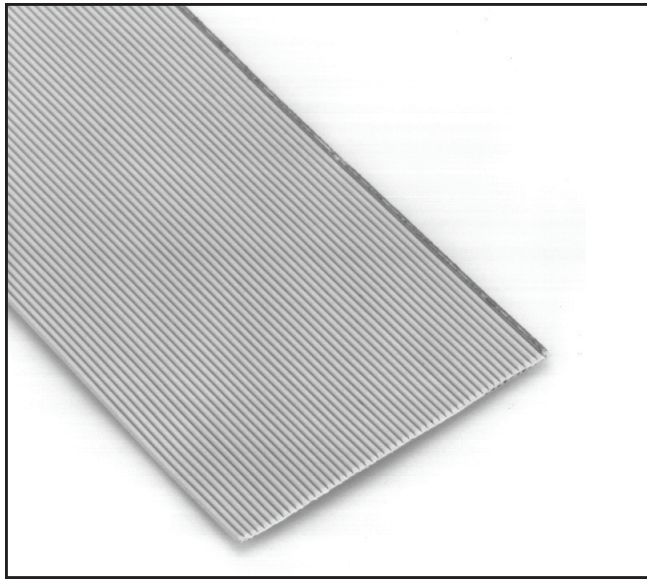


# 3M™ Round Conductor Flat Cable

.025" 30 AWG Stranded, TPE

3756 Series



- .025 inch wire spacing increases signal density
- TPE insulation provides excellent transmission properties
- 30 AWG stranded conductors on .025 inch wire spacing is designed for mass termination and flexibility
- Meets the SCSI-3 characteristic impedance requirements
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: November 1, 2013

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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, 7×38 AWG [ 7 ×  $\phi$  0.102 ] Tinned Stranded Copper

## Electrical

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

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

<b>Characteristic Impedance:</b>	<b>Unbalanced</b>	<b>Balanced</b>
	82 $\Omega$	138 $\Omega$

<b>Capacitance:</b>	17.3 pF/ft [ 56.8 pF/m ]	10.0 pF/ft [ 32.8 pF/m ]
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<b>Inductance:</b>	0.12 $\mu\text{H/ft}$ [ 0.38 $\mu\text{H/m}$ ]	0.19 $\mu\text{H/ft}$ [ 0.62 $\mu\text{H/m}$ ]
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<b>Propagation Delay:</b>	1.42 ns/ft [ 4.66 ns/m ]	1.38 ns/ft [ 4.53 ns/m ]
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<b>Velocity of Propagation:</b>	72%	74%
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Note: Unbalanced is measured between ground-signal-ground conductors. Balanced is measured between signal conductors within a pair.

## Environmental

**Temperature Rating:** -40°C to +105°C

**Flammability Rating:** USA: UL Horizontal Canada: FT2

UL File No.: E42769, Style No: 20297



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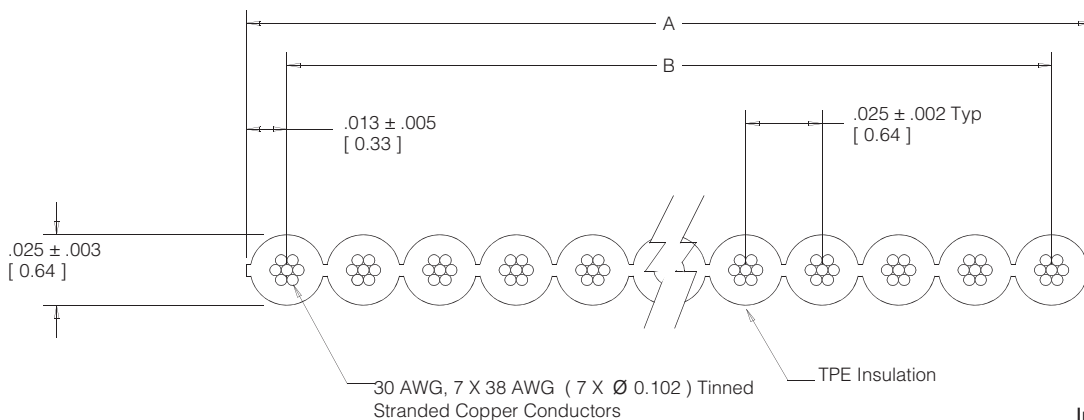
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Number of Conductors	3M Part Number	Dimension A	Dimension B
10	3756/10	0.250 ± .006 [6.35]	0.225 ± .004 [5.72]
12	3756/12	0.300 ± .006 [7.62]	0.275 ± .004 [6.99]
14	3756/14	0.350 ± .006 [8.89]	0.325 ± .004 [8.26]
16	3756/16	0.400 ± .006 [10.16]	0.375 ± .004 [9.53]
20	3756/20	0.500 ± .006 [12.70]	0.475 ± .004 [12.07]
26	3756/26	0.650 ± .006 [16.51]	0.625 ± .004 [15.88]
30	3756/30	0.750 ± .009 [19.05]	0.725 ± .006 [18.42]
34	3756/34	0.850 ± .009 [21.59]	0.825 ± .006 [20.96]
36	3756/36	0.900 ± .009 [22.86]	0.875 ± .006 [22.23]
40	3756/40	1.000 ± .009 [25.40]	0.975 ± .006 [24.77]
50	3756/50	1.250 ± .009 [31.75]	1.225 ± .006 [31.12]
60	3756/60	1.500 ± .012 [38.10]	1.475 ± .009 [37.47]
68	3756/68	1.700 ± .012 [43.18]	1.675 ± .009 [42.55]
80	3756/80	2.000 ± .015 [50.80]	1.975 ± .011 [50.17]
100	3756/100	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	±.05	±.010

[ ] Dimensions for Reference Only

## Ordering Information

**3756/XX XX**

Blank = Standard  
C = Canadian Certified Version

Blank = Standard  
SF = Splice Free

Number of Conductors  
(See Table)

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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