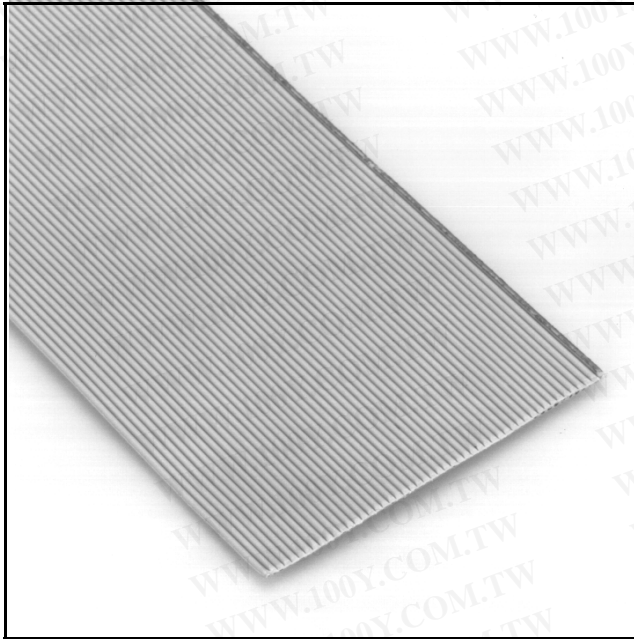


# 3M™ Round Conductor Flat Cable

.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
- RoHS\* compliant

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-54151736  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

Date Modified: July 6, 2006

TS-0508-12  
Sheet 1 of 2

## Physical

### Insulation

Material: Thermoplastic Elastomer (TPE)

Color: Gray

### Marking:

Standard: None

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

Conductors: 30 AWG 7x38 [7 x 0.102 ] Tinned Stranded Copper

## Electrical

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

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

### Unbalanced

### Balanced

**Characteristic Impedance:** 82  $\Omega$

138  $\Omega$

**Capacitance:** 17.3 pF/ft (56.8 pF/m)

10.0 pF/ft (32.8 pF/m)

**Inductance:** 0.12  $\mu\text{H/ft}$  (0.39  $\mu\text{H/m}$ )

0.19  $\mu\text{H/ft}$  (0.52  $\mu\text{H/m}$ )

**Propagation Delay:** 1.42 ns/ft (4.99 ns/m)

1.38 ns/ft (4.95 ns/m)

**Velocity of Propagation:** 72%

74%

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: VW-1 Canada: FT1

"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M. Contain decaBDE. Compliant per EU Commission Decision 2005/17/EC, Annex Item 9a - Exemption for decaBDE in Polymeric Applications.

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

**3M**

Interconnect Solutions

<http://www.3M.com/interconnects/>

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For technical, sales or ordering information call

800-225-5373

# 3M™ Round Conductor Flat Cable

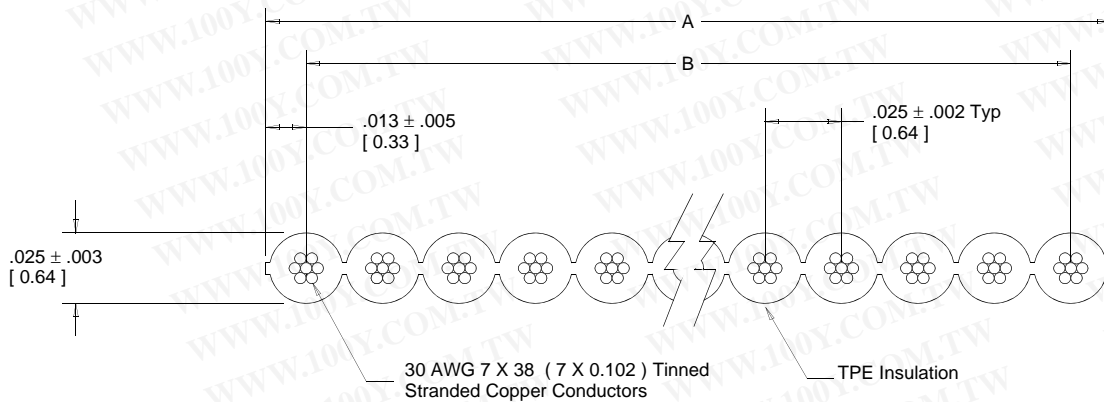
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Number of Conductors	3M Part Number	Dimension A	Dimension B
20	3756/20	0.500 ± .006 [ 12.70 ]	0.475 ± .004 [ 12.07 ]
26	3756/26	0.650 ± .006 [ 16.51 ]	0.625 ± .004 [ 15.88 ]
34	3756/34	0.850 ± .009 [ 21.59 ]	0.825 ± .006 [ 20.96 ]
36	3756/36	0.900 ± .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 ]



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

[ ] Dimensions for Reference only

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

## Ordering Information

**3756/XX**

Blank = Standard  
C = Canadian Certified Version

Number of Conductors  
(See Table)

Note: Standard lengths of 100 ft. and 300 ft. are available. Please specify when ordering.

TS-0508-12  
Sheet 2 of 2