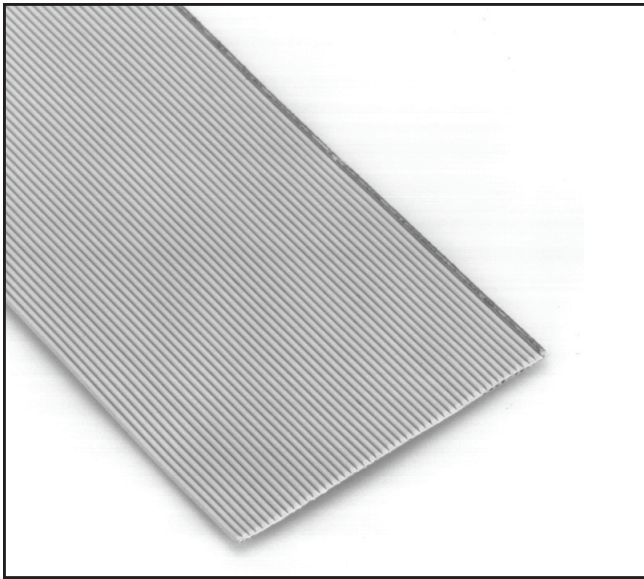


3M™ Round Conductor Flat Cable

.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 for compliance information (RIA E1 & C1 apply)

Date Modified: November 1, 2013

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Sheet 1 of 3

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 × ϕ 0.102] Tinned Stranded Copper

Electrical

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

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

| | | |
|----------------------------------|-------------------|-----------------|
| Characteristic Impedance: | Unbalanced | Balanced |
| | 82 Ω | 138 Ω |

| | | |
|---------------------|--------------------------|--------------------------|
| Capacitance: | 17.3 pF/ft [56.8 pF/m] | 10.0 pF/ft [32.8 pF/m] |
|---------------------|--------------------------|--------------------------|

| | | |
|--------------------|--|--|
| Inductance: | 0.12 $\mu\text{H/ft}$ [0.38 $\mu\text{H/m}$] | 0.19 $\mu\text{H/ft}$ [0.62 $\mu\text{H/m}$] |
|--------------------|--|--|

| | | |
|---------------------------|--------------------------|--------------------------|
| Propagation Delay: | 1.42 ns/ft [4.66 ns/m] | 1.38 ns/ft [4.53 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: UL Horizontal Canada: FT2

UL File No.: E42769, Style No: 20297

3M

Electronic Solutions Division
Interconnect Solutions
<http://www.3Mconnectors.com>

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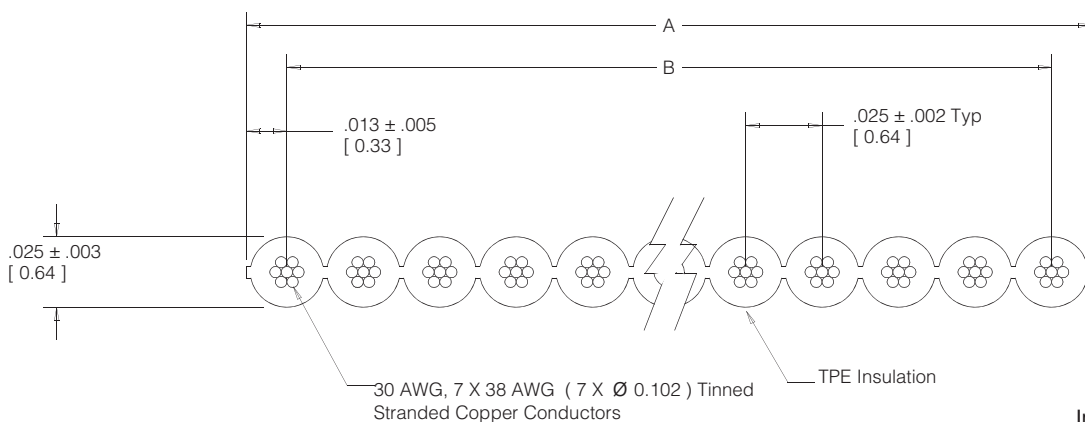
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| Number of Conductors | 3M Part Number | Dimension A | Dimension B |
|----------------------|----------------|----------------------|----------------------|
| 10 | 3756/10 | 0.250 ± .006 [6.35] | 0.225 ± .004 [5.72] |
| 12 | 3756/12 | 0.300 ± .006 [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] |



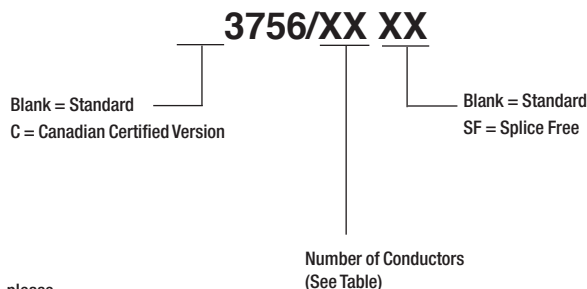
| Inch [mm] | | | |
|------------------------|-----|------|-------|
| Tolerance Unless Noted | | | |
| | .0 | .00 | .000 |
| Inch | ±.1 | ±.05 | ±.010 |

Note:

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

[] Dimensions for Reference Only

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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Sheet 2 of 3

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