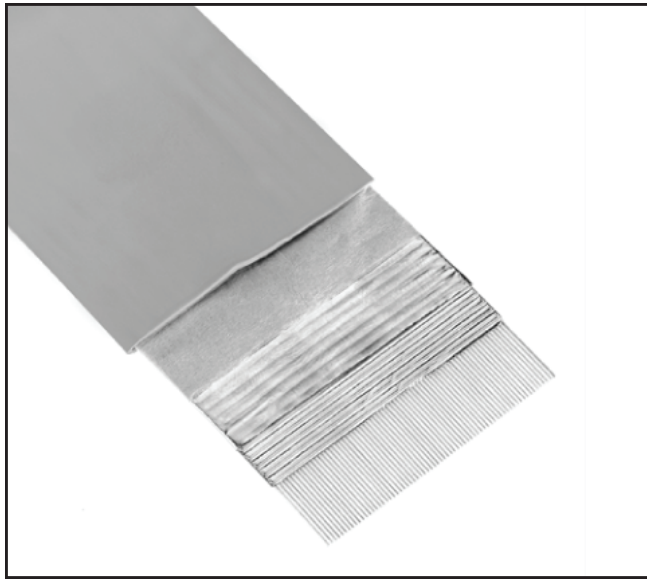


# 3M™ Pleated Foil Shielded Cable

.025" 30 AWG Solid, TPE Primary, PVC Jacket, Low Skew

93101 Series



- Skew of less than 100 picoseconds/meter when terminated in unbalanced mode, with even wire signals (excluding edge conductors)
- Skew of less than 100 picoseconds/meter when terminated in the balanced mode, with a ground wire on either side of each signal pair
- Can be used with IDC mass termination connectors
- Solid pleated foil copper foil and copper foil overlap provide flexibility and 35 db average shielding effectiveness
- CL2 rated, heavy duty jacketing for improved protection of cable
- See Regulatory Information Appendix (RIA) for chemical compliance information (RIA E1 & C1 apply)

Date Modified: May 18, 2009

TS-0876-C  
Sheet 1 of 2

## Physical

**Jacket Material:** Polyvinyl Chloride (PVC)

Color: Gray

Primary Material: Thermoplastic Elastomer (TPE)

Color: Natural

**Marking Standard:** (UL) CL2 75C 30AWG 3M NU C  AWM IIA/B 80C 150V FT1 EU <50V

**Conductors:** 30 AWG [  $\varnothing$  0.254 ] Tinned Solid Copper

Shielding: Solid, Pleated, Copper Foil, wrapped with Copper Foil

## Electrical

**Voltage Rating:** USA: N.E.C. 725, CL2      Canada: 150V      EU: <50V

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

**Characteristic Impedance:** **Unbalanced**      **Balanced**  
53  $\Omega$       104  $\Omega$

**Capacitance:** 28.4 pF/ft [ 93.2 pF/m ]      14.5 pF/ft [ 47.6 pF/m ]

**Inductance:** 0.08  $\mu\text{H}/\text{ft}$  [ 0.26  $\mu\text{H}/\text{m}$  ]      0.16  $\mu\text{H}/\text{ft}$  [ 0.52  $\mu\text{H}/\text{m}$  ]

**Propagation Delay:** 1.52 ns/ft [ 4.99 ns/m ]      1.51 ns/ft [ 4.95 ns/m ]

**Velocity of Propagation:** 67%      67%

Note: Edge wires not included in transmission line properties. Unbalanced is measured between ground-signal-ground conductors with shield grounded. Balanced is measured between signal conductors within a pair with the shield floating (balanced skew is measured with ground conductors on both sides of signal pairs).

## Environmental

**Temperature Rating:** USA: CL2: 75°C      Canada: 80°C

**Flammability Rating:** USA: N.E.C. 725, CL2      Canada: FT1

UL File No.: E118773, Power Limited Circuit Cable: CL2

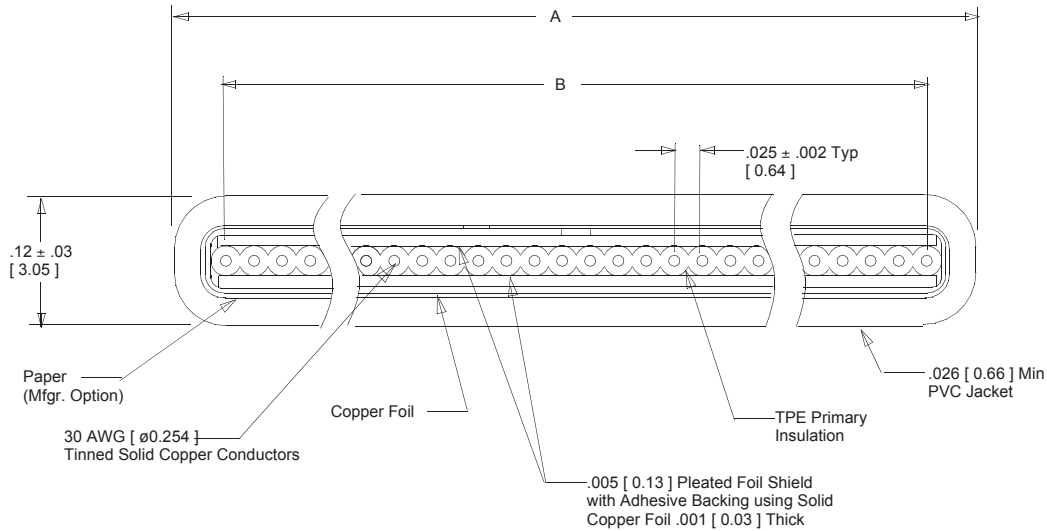
# 3M™ Pleated Foil Shielded Cable

.025" 30 AWG Solid, TPE Primary, PVC Jacket, Low Skew

93101 Series



Number of Conductors	3M Part Number	Dimension A	Dimension B
50	93101/50	1.40 [ 35.6 ]	1.225 ± .009 [ 31.12 ]
68	93101/68	1.90 [ 48.3 ]	1.675 ± .012 [ 42.55 ]
80	93101/80	2.20 [ 55.9 ]	1.975 ± .015 [ 50.17 ]
100	93101/100	2.70 [ 68.6 ]	2.475 ± .017 [ 62.87 ]



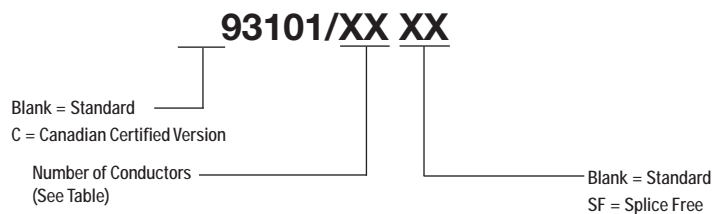
Inch  
[mm]

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

[ ] Dimensions for Reference Only

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

## Ordering Information



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

TS-0876-C  
Sheet 2 of 2





## Appendix C3: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part does not contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers (excluding decaBDE); or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

The numerical reference in the symbol above should not be construed as a representation regarding the product's life or an extension of a product warranty. The product warranty is stated below. In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the product Warranty stated below.

### Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. 3M MAKES NO OTHER WARRANTY INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.

1

3M Electronics Solutions Division  
6801 River Place Blvd.  
Austin, TX 78726-9000  
U.S.A.  
1-800-225-5373  
[www.3m.com/interconnects](http://www.3m.com/interconnects)

Please recycle. Printed in USA.  
© 3M 2008. All rights reserved.  
RIA-2217B-E

3M is a trademark of 3M Company.