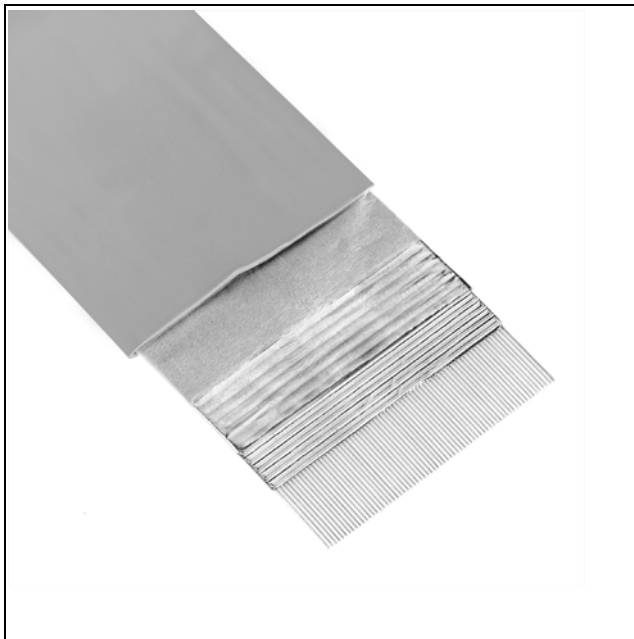


3M™ Pleated Foil Shielded Cable

.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
- *RoHS Compliant

Date Modified: November 14, 2006

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Physical

- Jacket Material:** Polyvinyl Chloride (PVC)
Jacket Color: Gray
- Primary Material:** Thermoplastic Elastomer (TPE)
Color: Natural
- Marking Standard:**  (UL) CL2 75C 30 AWG 3M NU  AWM II A/B 80C 150V FT1 EU <50V
- Conductors:** 30 AWG [ϕ 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) $> 1 \times 10^{10} \Omega/10 \text{ ft.}$ [3m]		
	Unbalanced	Balanced	
Characteristic Impedance:	53 Ω	104 Ω	
Capacitance:	28.4 pF/ft [93.2 pF/m]	14.5 pF/ft [47.6 pF/m]	
Inductance:	0.08 $\mu\text{H/ft}$ [0.26 $\mu\text{H/m}$]	0.16 $\mu\text{H/ft}$ [0.52 $\mu\text{H/m}$]	
Propagation Delay:	1.52 ns/ft [4.99ns/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

"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. Contains decaBDE. Compliant per EU Commission Decision 2005/17/EC, Annex Item 9a - Exemption for decaBDE in Polymeric Applications.

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

3M™ Pleated Foil Shielded Cable

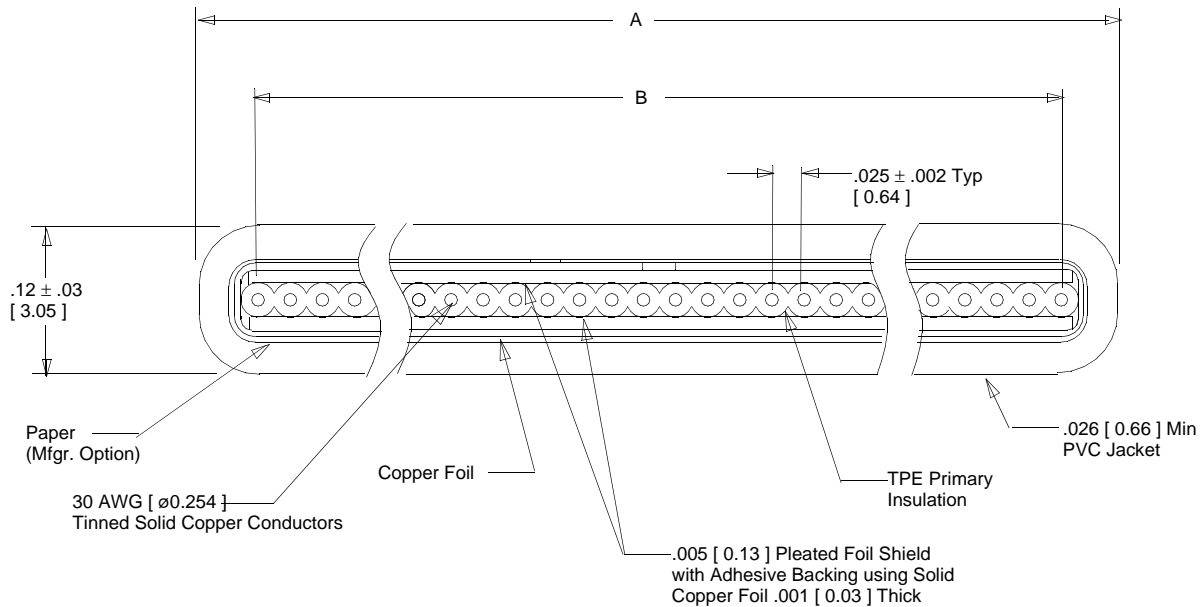
.025" 30 AWG Solid, TPE Primary, PVC Jacket, Low Skew

93101 Series

Number of Conductors	3M Part Number	Dimension A ±.05	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]

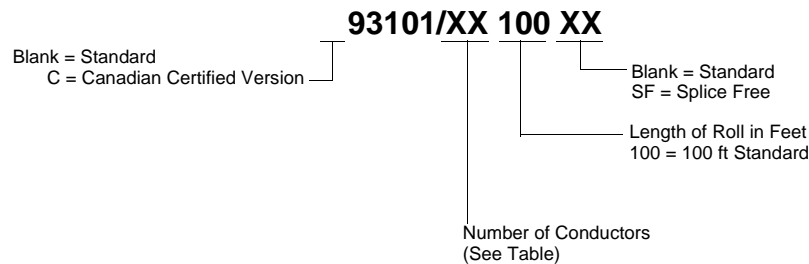
Inch [mm]			
Tolerance Unless Noted			
Inch	.0	.00	.000
	±.1	±.05	±.010

[] Dimensions for Reference only



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

Ordering Information



Note: Contact 3M for availability of additional conductor counts and/or custom roll lengths.

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Important Notice

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Minimum 10%
Post-Consumer Fiber

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