

# 3M™ Pleated Foil Shielded Cable

.025" 30 AWG Solid, TPE Primary, Thin TPE Cover

90201 Series



- Can be used with IDC mass termination connectors
- Can be used in applications requiring standard impedance of 100  $\Omega$  balanced (differential)
- Perfect for board-to-board applications within electronic equipment, TPE covering prevents pleated copper foil from accidental shorting
- Solid pleated copper foil provides flexibility and 35 db average shielding effectiveness
- See Regulatory Information Appendix (RIA) for chemical compliance information (RIA E1 & C1 apply)

Date Modified: September 3, 2013

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## Physical

**Cover Material:** Thermoplastic Elastomer (TPE)

**Cover Color:** Gray

**Primary Material:** Thermoplastic Elastomer (TPE)

**Marking:**

Standard: None

**Canadian Option:**  AWM 20674 105C 150V VW1 3M NU  
 AWM IA 105C 150V FT1 EU <50V

**Conductors:** 30 AWG [ 0.254 ] Tinned Solid Copper

**Shielding:** Solid, Pleated, Copper Foil

## Electrical

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

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

<b>Characteristic Impedance:</b>	<b>Unbalanced</b>	<b>Balanced</b>
	53 $\Omega$	104 $\Omega$

<b>Capacitance:</b>	28.4 pF/ft [ 93.2 pF/m ]	14.5 pF/ft [ 47.6 pF/m ]
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<b>Inductance:</b>	0.08 $\mu\text{H}/\text{ft}$ [ 0.26 $\mu\text{H}/\text{m}$ ]	0.16 $\mu\text{H}/\text{ft}$ [ 0.52 $\mu\text{H}/\text{m}$ ]
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<b>Propagation Delay:</b>	1.52 ns/ft [ 4.99 ns/m ]	1.50 ns/ft [ 4.95 ns/m ]
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<b>Velocity of Propagation:</b>	67%	67%
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Note: Unbalanced is measured between ground-signal-ground conductors with shield grounded. Balanced is measured between signal conductors within a pair with the shield floating.

## Environmental

**Temperature Rating:** -20°C to +105°C

**Flammability Rating:** USA: VW-1      Canada: FT1

UL File No.: E42769, Style No.: 20674

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Number of Conductors	3M Part Number	Dimension A	Dimension B
20	90201/20	0.54 [ 13.7 ]	0.475 ± .006 [ 12.06 ]
26	90201/26	0.69 [ 17.5 ]	0.625 ± .006 [ 15.88 ]
36	90201/36	0.94 [ 23.9 ]	0.875 ± .009 [ 22.23 ]
40	90201/40	1.04 [ 26.4 ]	0.975 ± .009 [ 24.77 ]
50	90201/50	1.29 [ 32.8 ]	1.225 ± .009 [ 31.11 ]
60	90201/60	1.54 [ 39.1 ]	1.475 ± .012 [ 37.47 ]
68	90201/68	1.74 [ 44.2 ]	1.675 ± .012 [ 42.55 ]
80	90201/80	2.04 [ 51.8 ]	1.975 ± .015 [ 50.17 ]
100	90201/100	2.54 [ 64.5 ]	2.475 ± .017 [ 62.87 ]



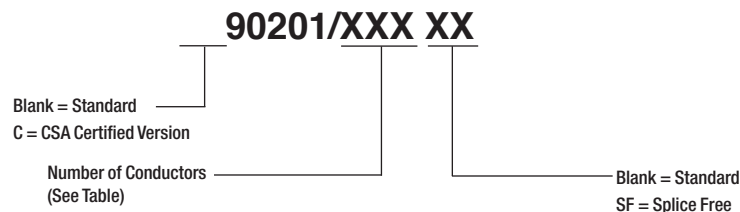
Inch  
[mm]

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 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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