

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 Ω 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
C  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) $> 1 \times 10^{10} \Omega/10 \text{ ft. [3 m]}$

Characteristic Impedance:	Unbalanced	Balanced
	53 Ω	104 Ω

Capacitance:	28.4 pF/ft [93.2 pF/m]	14.5 pF/ft [47.6 pF/m]
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Inductance:	0.08 $\mu\text{H/ft [0.26 } \mu\text{H/m]}$	0.16 $\mu\text{H/ft [0.52 } \mu\text{H/m]}$
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Propagation Delay:	1.52 ns/ft [4.99 ns/m]	1.50 ns/ft [4.95 ns/m]
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Velocity of Propagation:	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]

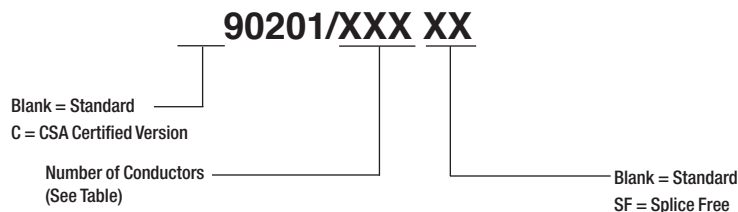


Tolerance Unless Noted			
	Inch [mm]		
	.0	.00	.000
Inch	±.1	±.05	±.010

Note: Blue marking on edge of primary 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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