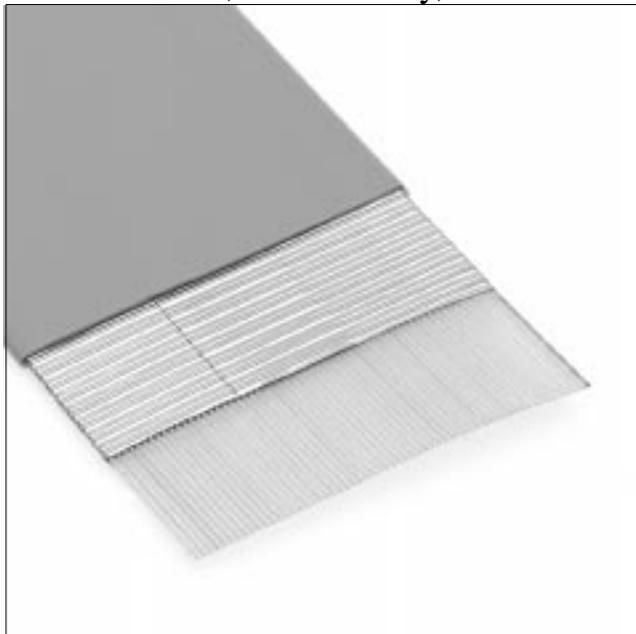


.025" Pleated Foil Shielded Cable

30 AWG Solid, TPE Primary, 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)
- Extremely low crosstalk, used in the all signal mode to quadruple signal density as compared to standard .050 inch flat ribbon cable
- 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

Date Modified: July 29, 1999

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Physical

Cover

Material: Thermoplastic Elastomer (TPE)

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

	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:	.08 $\mu\text{H}/\text{ft}$ (0.26 $\mu\text{H}/\text{m}$)	.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: 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 $+105^{\circ}\text{C}$

Flammability Rating: USA: VW-1

Canada: FT1

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

3M Interconnect Solutions Division

6801 River Place Blvd.
Austin, TX 78726-9000

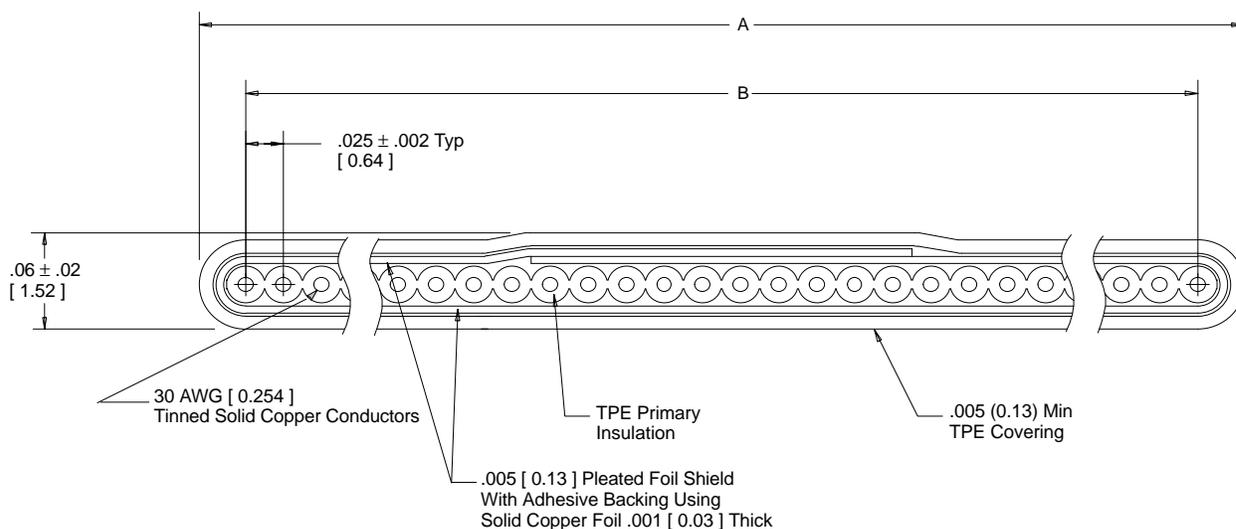
For technical, sales or ordering information call
800-225-5373

.025" Pleated Foil Shielded Cable

30 AWG Solid, TPE Primary, TPE Cover

90201 Series

Number of Conductors	3M Part Number	Dimension A ± .04	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

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

[] Dimensions for Reference only

Ordering Information

90201/XXX

Blank = Standard
C = CSA Certified Version

Number of Conductors
(See Table)

Note: Standard length is 100 ft/roll.

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Sheet 2 of 2

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