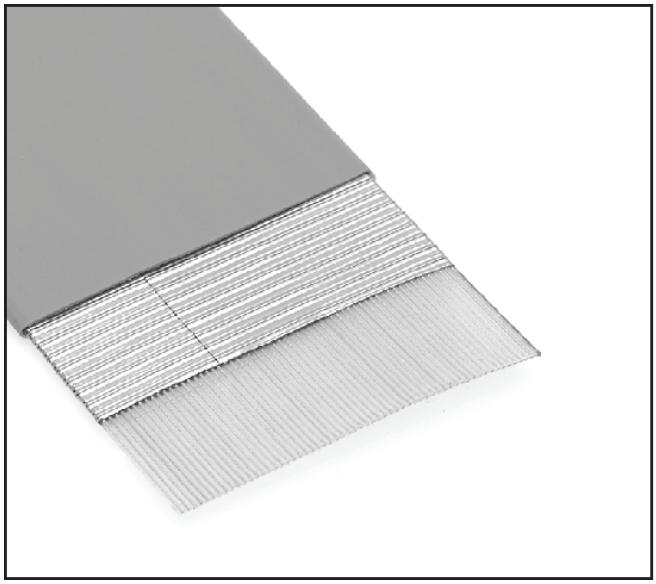
3M™ Pleated Foil Shielded Cable

.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

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) > 1×10^{10} Ω/10 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]
Inductance:	0.08 µH/ft [0.26 µH/m]	0.16 µH/ft [0.52 µH/m]
Propagation Delay:	1.52 ns/ft [4.99 ns/m]	1.50 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°C

Flammability Rating: USA: VW-1 Canada: FT1

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

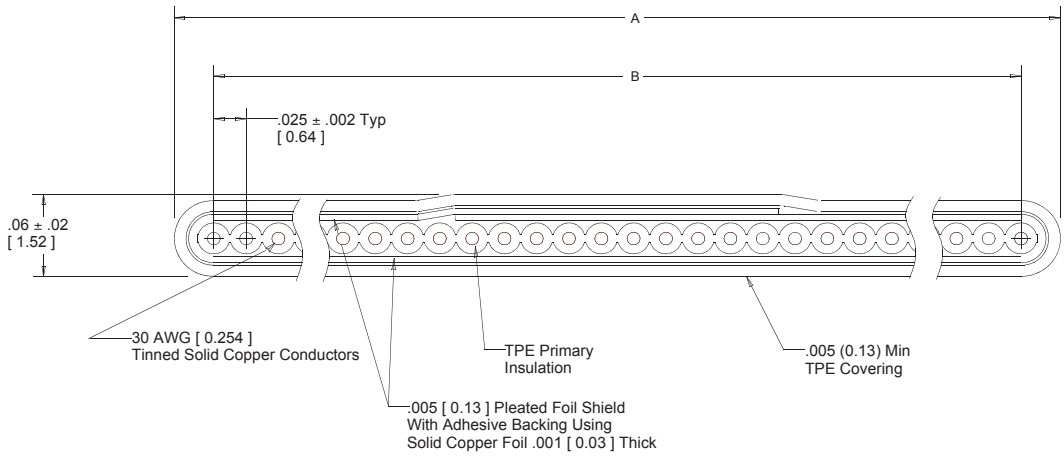
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.025" 30 AWG Solid, TPE Primary, Thin TPE Cover — 90201 Series

(OPTIONAL)

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

90201/XXX XX

- Blank = Standard
  C = CSA Certified Version
- Number of Conductors (See Table)
- Blank = Standard
  SF = Splice Free

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.

3M
Interconnect Solutions
http://www.3Mconnectors.com

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

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