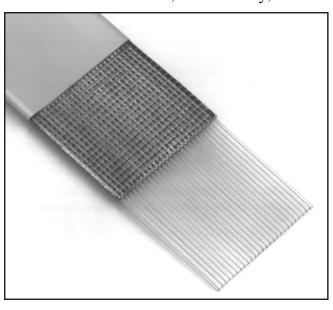
3M[™] Pleated Foil Shielded Cable

.050" 28 AWG Stranded, TPE Primary, Thin TPE Cover

90204 Series



- Can be used with IDC mass termination connectors
- Can be used in applications requiring standard impedance of 100Ω 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) Color: Gray

Primary Material: Thermoplastic Elastomer (TPE) Color: Natural

Marking Standard: None

Canadian Option: AVM 20674 105C 300V VW1 3M NU CAN AWM IA 105C 150V FT1 EU <50V

Conductors: 28 AWG, 7 × 36 AWG [7 × Ø 0.127] Tinned Stranded Copper

Shielding: Solid, Pleated, Copper Foil

Electrical

Voltage Rating: USA: 300V Canada: 150V EU: <50V

 $\begin{tabular}{ll} \textbf{Insulation Resistance:} & (Primary Cable) > 1 \times 10^{10} \, \Omega/10 \, \mathrm{ft.} \, [\, 3 \, \mathrm{m} \,] \\ \end{tabular}$

 53Ω 110Ω

 Capacitance:
 28.1 pF/ft [92.2 pF/m]
 13.4 pF/ft [44.0 pF/m]

 Inductance:
 0.08 μH/ft [0.26 μH/m]
 0.16 μH/ft [0.54 μH/m]

 Propagation Delay:
 1.49 ns/ft [4.89 ns/m]
 1.48 ns/ft [4.86 ns/m]

Velocity of Propagation: 68% 69%

 $Note: Unbalanced is \ measured \ between \ ground-signal-ground\ conductors, with \ shield\ grounded.\ Balanced\ is\ measured\ between \ signal\ conductors\ within\ a\ pair, with\ the\ shield\ floating.$

Environmental

Temperature Rating: -20°C to +105°C

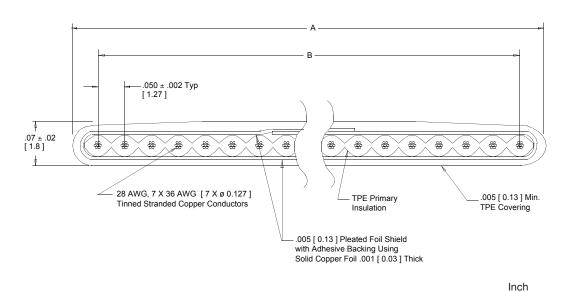
Flammability Rating: USA: VW-1 Canada: FT1

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

.050" 28 AWG Stranded, TPE Primary, Thin TPE Cover



Number of Conductors	3M Part Num- ber	Dimension A	Dimension B
15	90204/15	0.79 [20.1]	0.700 ± .007 [17.78]
20	90204/20	1.04 [26.5]	0.950 ± .011 [24.13]
25	90204/25	1.29 [32.8]	1.200 ± .011 [30.48]
26	90204/26	1.34 [34.1]	1.250 ± .011 [31.75]
34	90204/34	1.74 [44.3]	1.650 ± .015 [41.91]
37	90204/37	1.89 [48.1]	1.800 ± .015 [45.72]
40	90204/40	2.04 [51.9]	1.950 ± .015 [49.53]
50	90204/50	2.54 [64.6]	2.450 ± .015 [62.23]
60	90204/60	3.04 [77.3]	2.950 ± .015 [74.93]
64	90204/64	3.24 [82.4]	3.150 ± .015 [80.01]



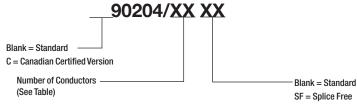
[mm]

Tolerance Unless Noted .000 $\pm .05$ ±.010 ±.1

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

[] Dimensions for Reference Only

Ordering Information



Note: Available in standard 100 ft rolls. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

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