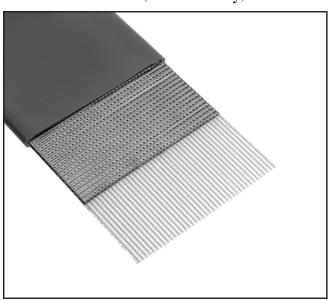
3M[™] Pleated Foil Shielded Cable

.025" 30 AWG Solid, TPE Primary, PVC Jacket

90101 Series



- Compatible with IDC mass termination connectors
- Functions with applications requiring standard impedance of 100Ω balanced (differential)
- Extremely low crosstalk, used in the all-signal mode to quadruple signal density as compared to standard .025 inch flat ribbon cable
- Solid pleated copper foil provides flexibility and 35 db average shielding effectiveness
- CL2 rated, rugged design and high reliability for peripheral applications
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3M.com/Interconnect for compliance information (RIA E1 & C1 apply)

Date Modified: July 16, 2009

TS-0285-C Sheet 1 of 2

Physical

Jacket:

Material: Polyvinyl Chloride (PVC)

Color: Gray

Primary Material: Thermoplastic Elastomer (TPE)

Marking:

Standard: (UL) CL2 75C 30 AWG 3M NU C AWM IIA/B 80C 150V FT1 EU <50V

Conductors: 30 AWG [0.254] Tinned Solid Copper

Shielding: Solid, Pleated, Copper Foil

Electrical

Voltage Rating: USA: N.E.C. 725, CL2 Canada: 150V EU: <50V

 Insulation Resistance:
 (Primary Cable) > 1 × 10 10 Ω/10 ft. [3 m]

 Characteristic Impedance:
 Unbalanced

 Balanced
 53 Ω

 3Ω 104Ω

 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]
 1.51 ns/ft [4.95 ns/m]

Velocity of Propagation: 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: USA: CL2: 75°C Canada: 80°C **Flammability Rating:** USA: N.E.C. 725, CL2 Canada: FT1

UL File No.: E118773, Power Limited Circuit Cable: CL2

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800-225-5373

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

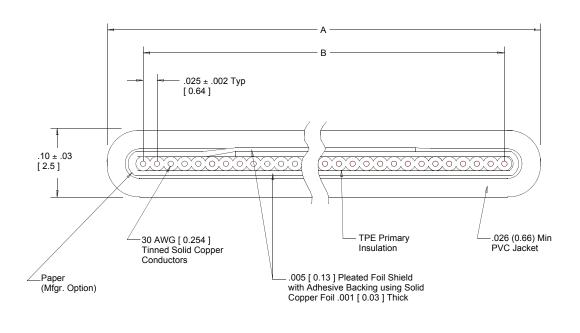
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Number of Conductors	3M Part Number	Dimension A	Dimension B
20	90101/20	0.60 [15.2]	0.475 ± .006 [12.07]
26	90101/26	0.75 [19.1]	0.625 ± .006 [15.88]
36	90101/36	1.00 [25.4]	0.875 ± .009 [22.23]
40	90101/40	1.10 [27.9]	0.975 ± .009 [24.77]
50	90101/50	1.35 [34.3]	1.225 ± .009 [31.12]
68	90101/68	1.80 [45.7]	1.675 ± .012 [42.55]
80	90101/80	2.10 [53.3]	1.975 ± .015 [50.17]
100	90101/100	2.60 [66.0]	2.475 ± .017 [62.87]



[mm]

Tolerance Unless Noted

.0 .00 .000

Inch ±.1 ±.05 ±.010

[] Dimensions for Reference Only

Inch

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

Ordering Information 90101/XX XX Number of Conductors (See Table) Blank = Standard SF = Splice Free

Note: Standard lengths are 100 ft, 150 ft, and 300 ft rolls. Please specify when ordering.

TS-0285-C Sheet 2 of 2

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