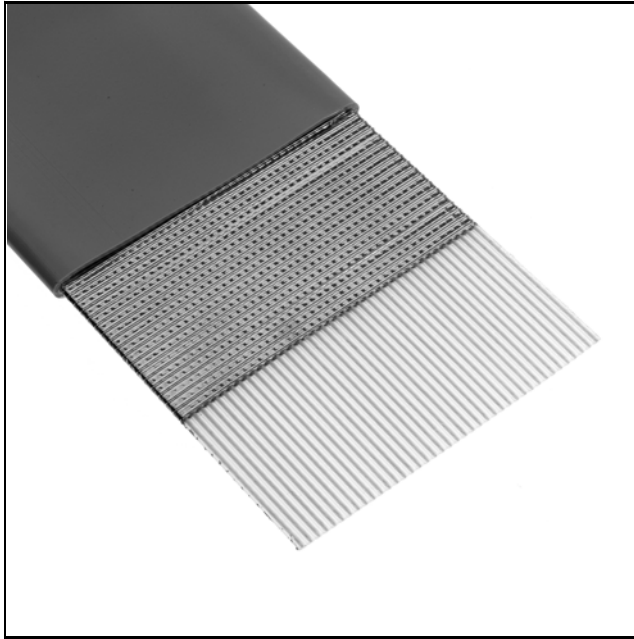


3M™ Pleated Foil Shielded Cable

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

90101 Series



- Compatible with IDC mass termination connectors
- Functions with applications requiring standard impedance of 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
- Solid pleated copper foil provides flexibility and 35 db average shielding effectiveness
- CL2 rated, rugged design and high reliability for peripheral applications
- RoHS* Compliant

Date Modified: January 19, 2005

TS-0285-19
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
UL AWM II A/B 80C 150V FT1 EU <50V

Conductors: 30 AWG [0.254] Tinned Stranded 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. [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 μ H/ft (0.26 μ H/m)	.16 μ H/ft (0.52 μ H/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: CL2: 75°C Canada: 80°C
Flammability Rating: USA: N.E.C. 725, CL2 Canada: FT1

RoHS = Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

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

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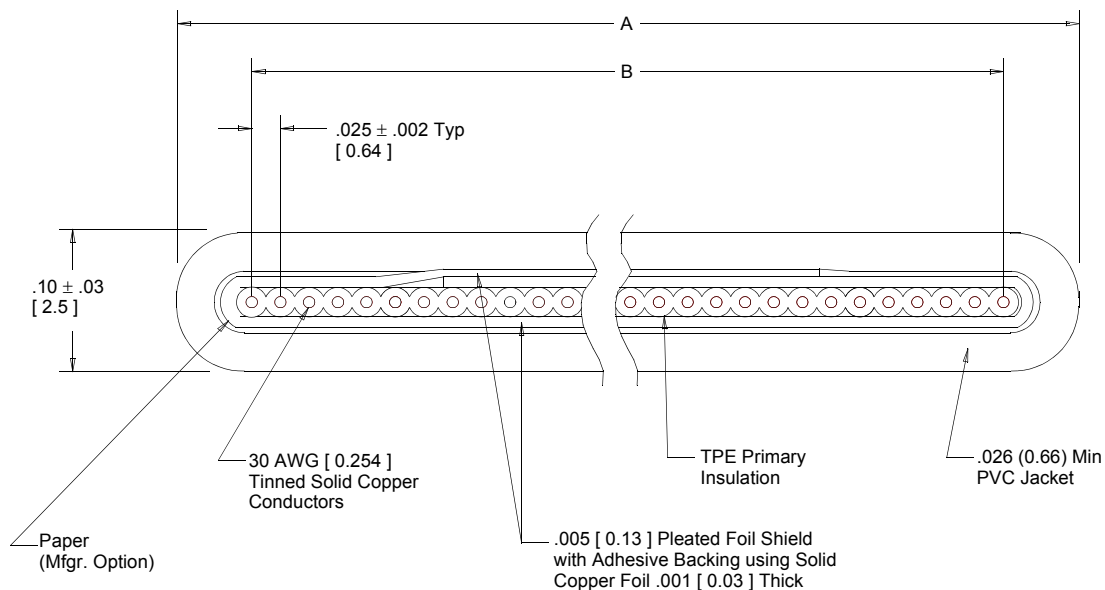
Number of Conductors	3M Part Number	Dimension A ± .030	Dimension B
20	90101/20	.60 [15.2]	0.475 ± .006 [12.07]
26	90101/26	.75 [19.1]	0.625 ± .006 [15.88]
36	90101/36	1.00 [25.4]	0.875 ± .009 [22.23]
40	90101/40	1.10 [27.9]	0.975 ± .009 [24.77]
50	90101/50	1.35 [34.3]	1.225 ± .009 [31.12]
68	90101/68	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]



Inch
[mm]

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

[] Dimensions for Reference only



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

Ordering Information

90101/XX

Number of Conductors
(See Table)

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

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Sheet 2 of 2

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