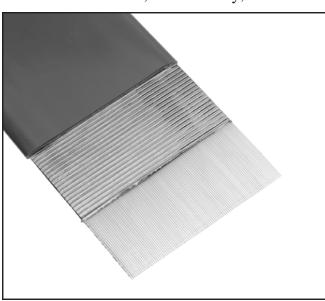
3M[™] Pleated Foil Shielded Cable

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

90111 Series



- Can be used with IDC mass termination connectors
- Can be used in applications requiring standard impedance of 75 Ω single ended
- CL2 rated, rugged design, and high reliability for peripheral applications
- 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

TS-0451-C Sheet 1 of 2

Physical

Cover 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

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

 72Ω 129Ω

 Capacitance:
 21.0 pF/ft [68.9 pF/m]
 11.6 pF/ft [38.1 pF/m]

 Inductance:
 0.11 μH/ft [0.36 μH/m]
 0.19 μH/ft [0.62 μH/m]

Propagation Delay: 1.51 ns/ft [4.95 ns/m] 1.50 ns/ft [4.92 ns/m]

Velocity of Propagation: 67% 68%

Note: Unbalanced is measured between ground-signal-ground conductors. Balanced is measured between signal conductors within a pair.

Environmental

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

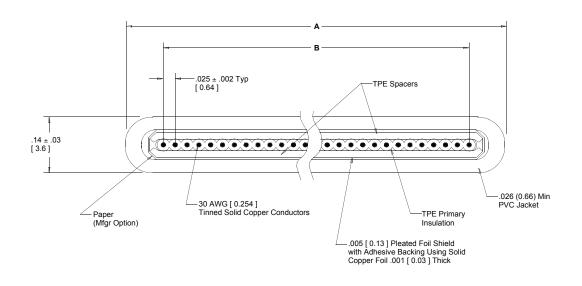
UL File No.: E118773, Power Limited Circuit Cable: CL2

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Number of Conductors	3M Part Number	Dimension A	Dimension B
20	90111/20	.65 [16.5]	0.475 ± .004 [12.07]
26	90111/26	.80 [20.3]	0.625 ± .004 [15.88]
36	90111/36	1.05 [26.7]	0.875 ± .006 [22.23]
40	90111/40	1.15 [29.2]	0.975 ± .006 [24.77]
50	90111/50	1.40 [35.6]	1.225 ± .009 [31.12]
68	90111/68	1.85 [47.0]	1.675 ± .012 [42.55]
80	90111/80	2.15 [54.6]	1.975 ± .012 [50.17]
100	90111/100	2.65 [67.3]	2.475 ± .015 [62.87]



Inch [mm]

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

[] Dimensions for Reference Only

Ordering Information

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

90111/XX

Number of Conductors (See Table)

TS-0451-C Sheet 2 of 2

Note: Standard length is 100 ft/roll.

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the legal theory asserted.

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