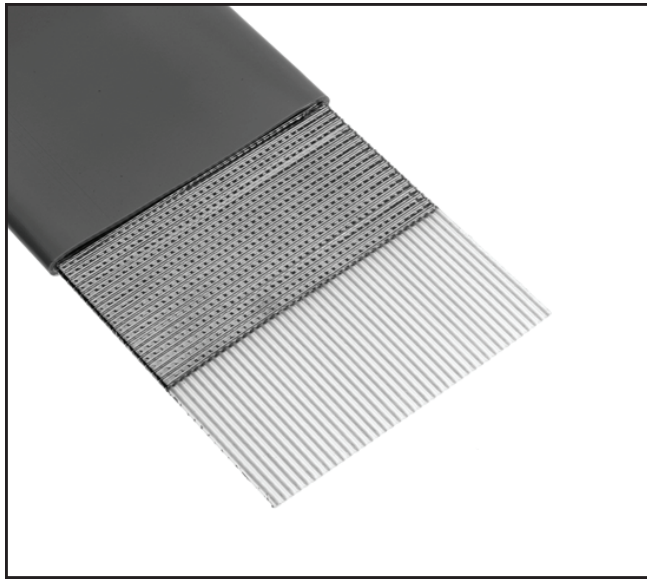


3M™ Pleated Foil Shielded Cable

.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)
- 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.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: September 3, 2013

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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) $> 1 \times 10^{10} \Omega/10 \text{ ft.}$ [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 $\mu\text{H}/\text{ft}$ [0.26 $\mu\text{H}/\text{m}$] 0.16 $\mu\text{H}/\text{ft}$ [0.52 $\mu\text{H}/\text{m}$]

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: 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

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

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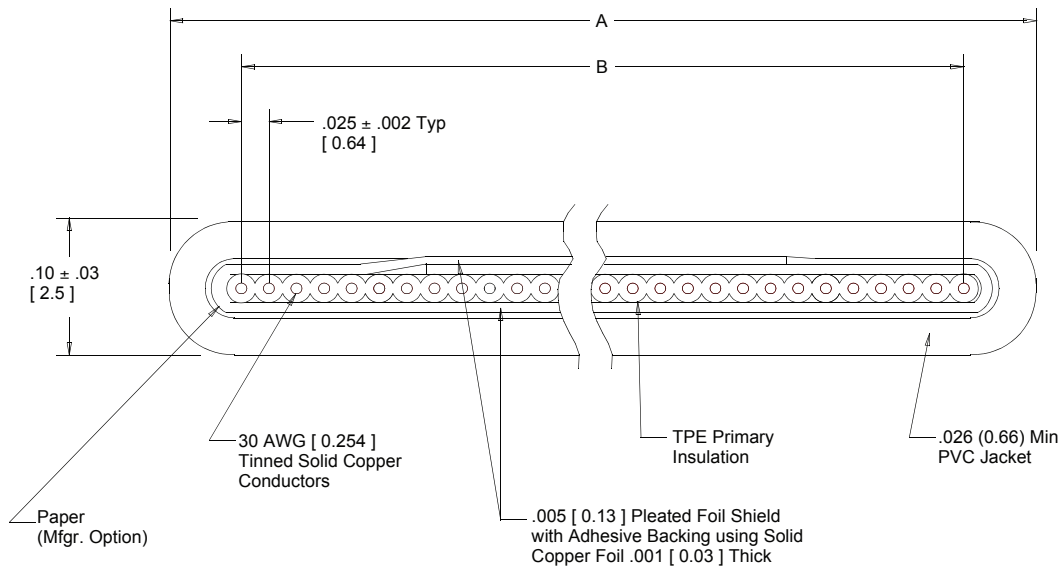
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| Number of Conductors | 3M Part Number | Dimension A | Dimension B |
|----------------------|----------------|---------------|------------------------|
| 20 | 90101/20 | 0.60 [15.2] | 0.475 ± .006 [12.07] |
| 26 | 90101/26 | 0.75 [19.1] | 0.625 ± .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] |



| Tolerance Unless Noted | | | |
|------------------------|-----------|------|-------|
| | Inch [mm] | | |
| | .0 | .00 | .000 |
| Inch | ±.1 | ±.05 | ±.010 |

[] Dimensions for Reference Only

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.

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RIA-2217B-F

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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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