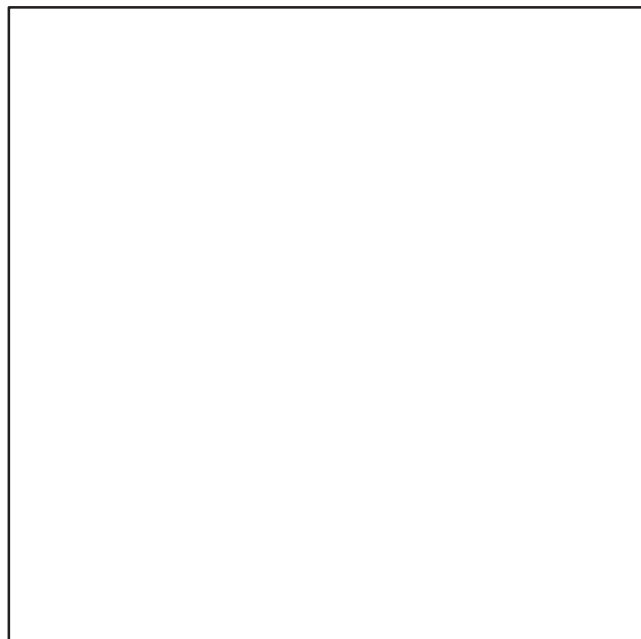


.050" Shielded, Covered, Twist and Flat Cable

28 AWG Stranded, Halogen Free Primary and Cover

2186 TP Series



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Date Issued: November 19, 1998

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Physical

Cover

Material: Halogen Free Polyolefin (PO)

Color: Off White

Primary Material: Halogen Free Polyolefin (PO)

Marking

Standard: None

Conductors: 28 AWG 7 x 36 [7 x 0.127] Tinned Stranded Copper

Shielding: Solid Copper Foil and two-28 AWG 7 x 36 [7x0.127] Tinned Stranded Copper Drain Wires

Electrical

Voltage Rating: USA: 30 V

EU: <50V

Insulation Resistance: (Primary Cable) $> 1 \times 10^{10} \Omega/10 \text{ ft. [3m]}$

Unbalanced

Balanced

Characteristic Impedance: 74 Ω

115 Ω

Capacitance: 23.5 pF/ft (77.1 pF/m)

15.1 pF/ft (49.5 pF/m)

Inductance: .13 $\mu\text{H/ft}$ (0.43 $\mu\text{H/m}$)

.20 $\mu\text{H/ft}$ (0.66 $\mu\text{H/m}$)

Propagation Delay: 1.73 ns/ft (5.68 ns/m)

1.73 ns/ft (5.68 ns/m)

Velocity of Propagation: 59%

59%

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

Environmental

Temperature Rating: -20°C to +80°C

Flammability Rating: USA: UL Horizontal EU: IEC 332-1 & -3

3M Electronic Products Division

6801 River Place Blvd.
Austin, TX 78726-9000

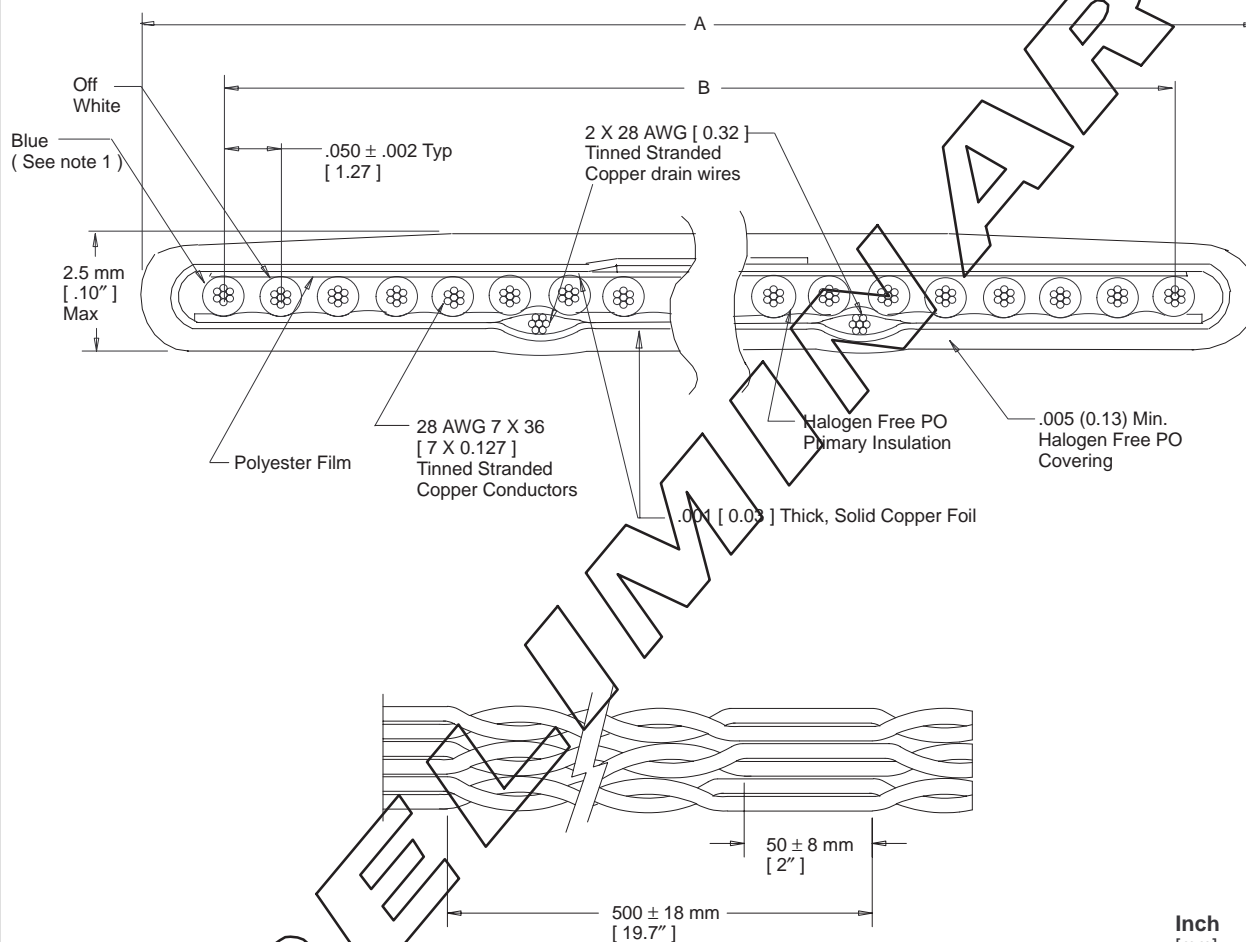
For technical, sales or ordering information call
800-225-5373

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Number of Conductors	3M Part Number	Dimension A (Reference)	Dimension B (See note 2)
14 (7 pair)	2186/14TP	0.76 [19.3]	0.65 ± .010 [16.5]
34 (17 pair)	2186/34TP	1.76 [44.7]	1.65 ± .010 [41.9]



Note:

1. Blue edge conductor designates wire one of pair one.
2. Dimension B pertains to bonded area only.

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

[] Dimensions for Reference only

Ordering Information

2186/XXTP

Number of conductors Twist and flat suffix
(See Table)

Notes:

3. Standard product has a 50 mm flat on 500 mm repeat (2" flat on 19.7" repeat). For special requirements, please contact your 3M sales representative. The flat can be specified anything over 50 mm [2"], the repeat can be specified from 16.5 cm to 1.2 m [6.5" to 48"].
4. Standard length is 30 m per roll.

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