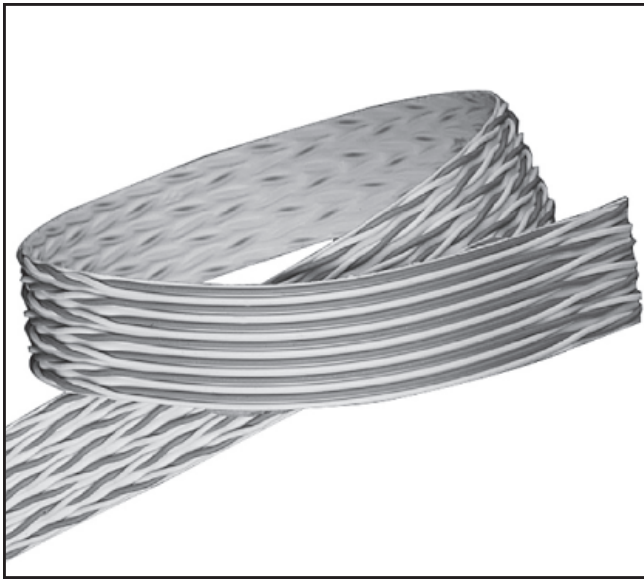


3M™ Twisted Pair Flat Cable

.050" 28 AWG Stranded, Mass Terminable, Halogen Free Polyolefin

2100 Series



- Advantage of this halogen free insulation are low smoke (BSS 7238) and low toxicity of combustion gases (NES 713) reducing the risk to firefighters and low corrosivity of combustion gases (pH≈6.0) reducing damage to nearby equipment
- 28 AWG stranded conductors on .050 inch pitch permits mass terminations to a broad line of IDC connectors
- Please contact your 3M sales representative for variations not described in this specification
- See Regulatory Information Appendix (RIA) for chemical compliance information (RIA E1 & C1 apply)

Date Modified: Septmeber 9, 2010

TS-0762-D
Sheet 1 of 2

Physical

Insulation:

Material: Halogen-Free Polyolefin (PO) Appendix C1 & E1 apply.

Color: Blue / Off-White Pairs

Marking:

Standard: None

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

Electrical

Voltage Rating: USA: 150V EU: <50V

Insulation Resistance: $>10^{10} \Omega/10 \text{ ft. [3 m]}$

Characteristic Impedance: Unbalanced 102 Ω Balanced 119 Ω

Capacitance: 16.9 pF/ft [55.4 pF/m] 14.6 pF/ft [47.9 pF/m]

Inductance: 0.18 $\mu\text{H}/\text{ft}$ [0.59 $\mu\text{H}/\text{m}$] 0.21 $\mu\text{H}/\text{ft}$ [0.69 $\mu\text{H}/\text{m}$]

Propagation Delay: 1.74 ns/ft [5.71 ns/m] 1.73 ns/ft [5.68 ns/m]

Velocity of Propagation: 58% 59%

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

Environmental

Temperature Rating: -20°C to +80°C

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

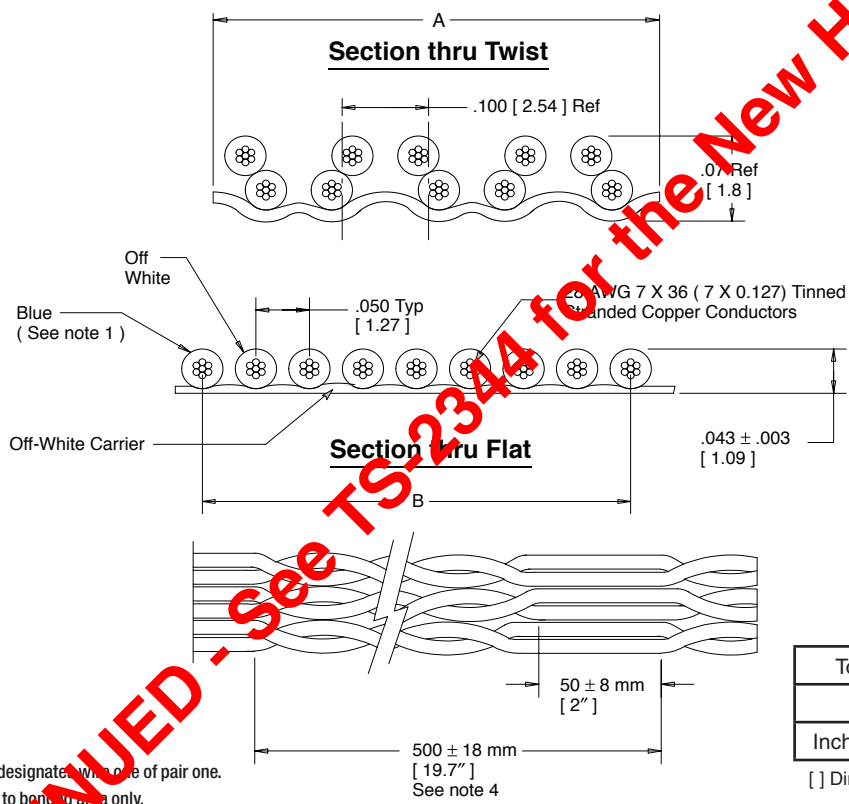
UL File No.: E42769, Style No: 21008

3M™ Twisted Pair Flat Cable

.050" 28 AWG Stranded, Mass Terminable, Halogen Free Polyolefin

2100 Series

Number of Conductors	3M Part Number	Dimension A	Dimension B
10 (5 pair)	2100/10TP	0.50 [12.7]	0.450 ± .010 [11.43]
14 (7 pair)	2100/14TP	0.70 [17.8]	0.650 ± .010 [16.51]
16 (8 pair)	2100/16TP	0.80 [20.3]	0.750 ± .010 [19.05]
20 (10 pair)	2100/20TP	1.00 [25.4]	0.950 ± .010 [24.13]
24 (12 pair)	2100/24TP	1.20 [30.5]	1.150 ± .010 [29.21]
26 (13 pair)	2100/26TP	1.30 [33.0]	1.250 ± .010 [31.75]
34 (17 pair)	2100/34TP	1.70 [43.2]	1.650 ± .015 [41.91]
40 (20 pair)	2100/40TP	2.00 [50.8]	1.950 ± .015 [49.53]
50 (25 pair)	2100/50TP	2.50 [63.5]	2.450 ± .015 [62.23]
60 (30 pair)	2100/60TP	3.00 [76.2]	2.950 ± .015 [74.93]
64 (32 pair)	2100/64TP	3.20 [81.3]	3.150 ± .015 [80.01]



- Note:
- Blue edge conductor designated with a blue pair one.
 - Dimension B pertains to bond area only.

	Tolerance Unless Noted		
	Inch	[mm]	
	.0	.00	.000
Inch	±.1	±.01	±.005

[] Dimensions for Reference Only

Ordering Information

2100/XX TP XX

Number of Conductors
(See Table)

Blank = Standard
SF = Splice Free

- Note:
- Available in standard lengths of 30 m and 100 m per roll, please specify when ordering.
 - Standard product has a 50 mm flat on 500 mm repeat (2" bond on 19.7" repeat). For special requirements, please contact your 3M sales representative. The flat can be specified anything over 25 mm (1"), the repeat can be specified from 16.5 cm to 1.2 m (6.5" to 48").

TS-0762-D
Sheet 2 of 2

DISCONTINUED - See TS-2344 for the New HF100 Series

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