

.050"/1.27mm Round-Jacketed, Shielded, Twisted Pair Flat Cable

28 AWG Stranded, Mass Terminatable, PVC/PVC

3784 Series



- 28 AWG stranded wire to provide flexibility
- Twisted pairs reduce crosstalk for balanced drive applications
- Wire are colour coded for easy identification
- Jacket is round for better flexibility
- Flat section parts for mass termination
- Shielding provides excellent EMI/ESD protection

Physical

Insulation

Material: Polyvinyl Chloride (PVC)

Color: Grey

Primary Material PVC

Marking

Standard: UL AWM 2935 VW-1 300V 80C E65859 3M EU <50V

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

Shielding Tinned Copper Braid Shield, 80% min. coverage

Electrical

Voltage Rating: USA: 300V EU: <50V

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

	Unbalanced	Balanced
Characteristic Impedance:	71 Ω	123 Ω
Capacitance:	24.1 pF/ft (79.1 pF/m)	13.9 pF/ft (45.6 pF/m)
Inductance:	.12 $\mu\text{H/ft}$ (0.39 $\mu\text{H/m}$)	.21 $\mu\text{H/ft}$ (0.69 $\mu\text{H/m}$)
Propagation Delay:	1.72 ns/ft (5.64 ns/m)	1.71 ns/ft (5.61 ns/m)
Velocity of Propagation:	59%	59%

Note: Unbalanced is measured between conductors within a pair with one conductor connected to the shield.
Balanced is measured between conductors within a pair with the shield floating.

Environmental

Temperature Rating: -20° C to +80° C

Flammability Rating: UL: VW-1

UL File No.: E65859, Style No.: 2935

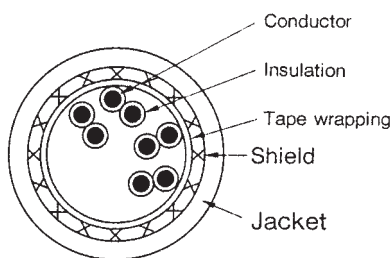
3M Electronic Products Division

<http://www.3M.com/interconnects/>

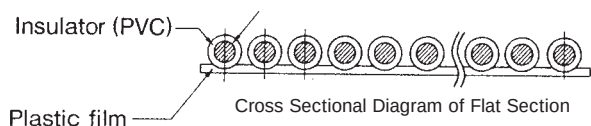
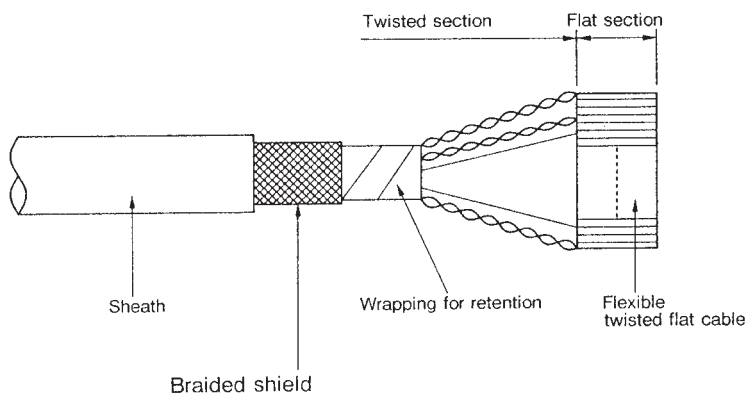
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Pairs	Approx. outside diameter finish (mm)	Approx weight (g/m)
5	8.0	60
7	8.3	65
8	9.2	70
10	9.9	80
12	10.0	90
13	10.1	95
15	10.2	105
17	10.4	115
20	12.0	135
25	12.4	160
30	13.5	180
32	14.5	230



10 Colour Repeat

brown/ white	red/ white	orange/ white	yellow/ white	green/ white	blue/ white	purple/ white	grey/ white	pink/ white	black/ white
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*Colour identification consists of 10 two-colour pairs made by combinations of white with one each of 10 colours - namely brown, red, orange, yellow, green, blue, purple, grey, pink or black. From the 11th pair on, the same colour combinations are repeated.

Ordering Information

3784/XXP-540

Number of Pairs

(See Table)