

## 3M™ Round, Shielded/Jacketed, Discrete Wire Cable, 26 AWG Stranded, PVC/PVC, 3750/38, 100 ft.

**38 conductors, Twisted Pair**

GTIN(UPC/EAN) : 0 00 51138 44046 6  
3M Id : 80-6108-1503-9

**Characteristics**

<b>3M Logo, Position Indicator, Wire Gauge, Insulator Material</b>	(UL) CL2 75C 26 AWG 3M XX AWM II A/B 80C 150V FT1 EU <50V
<b>Balanced Capacitance</b>	18.1 pF/ft (59.4 pF/m)
<b>Balanced Inductance</b>	.18 microHenry/ft (0.59 microHenry/m)
<b>Balanced Propagation Delay</b>	1.82 ns/ft (5.97 ns/m)
<b>Cable Marking</b>	UL CL2 75C 26AWG OR AWM 2464 3M XX CUL AWM IIA/B 80C 150V FT
<b>Cable Style</b>	Round
<b>Capacitance -- Balanced</b>	18.1 Picofarad
<b>Capacitance -- Unbalanced</b>	35.6 Picofarad
<b>Characteristic Impedance -- Balanced</b>	100 Ohm
<b>Characteristic Impedance -- Unbalanced</b>	51 Ohm
<b>China RoHS - Below MCV</b>	Yes
<b>Color</b>	Gray
<b>Conductor Material</b>	Copper
<b>Conductor Resistance</b>	41 Ohm
<b>Conductors</b>	28 AWG 7x36 [7x0.127] Tinned Stranded Copper
<b>EPC Can View</b>	Public
<b>EU RoHS Compliant</b>	Yes
<b>First Position Marking</b>	None
<b>Flammability Rating -- Canada</b>	FT1
<b>Flammability Rating -- EU</b>	None
<b>Flammability Rating--USA</b>	N.E.C. 725, CL2
<b>Impedance -- Balanced</b>	100 Ohm
<b>Impedance -- Unbalanced</b>	51 Ohm
<b>Inductance -- Balanced</b>	.18 Microhenry
<b>Inductance -- Unbalanced</b>	.09 Microhenry

<b>Insulation Material</b>	Polyvinyl Chloride (PVC)
<b>Insulation Resistance</b>	(Primary Cable) >1x10^10 Ohm/10ft [3m]
<b>Jacket</b>	Yes
<b>Jacket Color</b>	Gray
<b>Jacket Material</b>	Polyvinyl Chloride (PVC)
<b>Lower Temperature Rating</b>	0 Degree Celsius
<b>Material</b>	Polyvinyl Chloride (PVC)
<b>Number of Conductors</b>	38
<b>Plating Material</b>	None
<b>Primary Configuration</b>	Twisted Pair
<b>Primary Insulation Color</b>	Multi
<b>Primary Insulation Material</b>	Polyvinyl Chloride (PVC)
<b>Primary Material</b>	PVC
<b>Propagation Delay -- Balanced</b>	1.81 Nanosecond
<b>Propagation Delay -- Unbalanced</b>	1.82 Nanosecond
<b>Shape</b>	Round
<b>Shield</b>	Yes
<b>Shield Material</b>	.001 [0.03] Thick Aluminum/Polyester Film Foil and 90% Cover
<b>Shielding</b>	.001 [0.03] Thick Aluminum/Polyester Film Foil and 90% Coverage Tinned Copper Braid
<b>Stranding</b>	7 X 34 [7 X 0.160]
<b>Temperature Rating: Canada</b>	80 Degree C
<b>Temperature Rating: USA</b>	CL2; 75 Degree C Max
<b>UL File Number</b>	E118773
<b>UL Listed -- USA</b>	N.E.C. Article 725, CL2
<b>UL Recognized -- USA</b>	AWM Style 2464
<b>UL Recognized-- Canada</b>	IIA/B
<b>Unbalanced Capacitance</b>	35.6 pF/ft (116.8 pF/m)
<b>Unbalanced Inductance</b>	.09 microHenry/ft (0.30 microHenry/m)
<b>Unbalanced Propagation Delay</b>	1.81 ns/ft (5.94 ns/m)
<b>Upper Temperature Rating -- Canada</b>	80 Degree Celsius
<b>Upper Temperature Rating -- USA</b>	75 Degree Celsius
<b>Velocity of Propagation--Balanced</b>	56%
<b>Velocity of Propagation--Unbalanced</b>	56%
<b>Voltage Rating -- Canada</b>	150 Volt
<b>Voltage Rating -- EU</b>	>0 to <50 Volt
<b>Voltage Rating--USA</b>	N.E.C. 725, CL2 AWM 300V
<b>Voltage Rating: Canada</b>	150V
<b>Voltage Rating: EU</b>	<50V
<b>Wire Gauge</b>	26 American Wire Gauge (AWG)

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## **3M™ Round, Shielded/Jacketed, Discrete Wire Cable, 26 AWG Stranded, PVC/PVC, 3750/38, 100 ft.**

### **Packaging**

**3M Id:** 80-6108-1503-9

**Minimum Order Quantity:** 3.0 RLS

**Case Quantity:** 3.0 RLS

	<b>English</b>	<b>Metric</b>
Length	12.1 INCH	0.307 MTR
Width	10.6 INCH	0.269 MTR
Height	11.0 INCH	0.279 MTR
Gross Weight	14.2000 LBS	6.4410 KG

# 3M™ Round, Shielded/Jacketed, Disc. Wire Cable

26 AWG Stranded, Twisted Pair, PVC/PVC

3750 Series



- Meets external wiring requirements of National Electrical Code, Article 725 (CL2)
- 26 AWG wire carries higher power levels in I/O harness
- Twisted pairs reduce crosstalk for balanced drive applications
- Dual shielding provides 35 db average shielding
- Wires are color-coded for easy identification
- RoHS\* compliant

Date Modified: May 17, 2006

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## Physical

**Jacket Material:** Polyvinyl Chloride (PVC)

Color: Gray

Primary Material: PVC

**Marking Standard:** (UL) CL2 75C 26 AWG 3M XX C AWM II A/B 80C 150V FT1 EU <50V (where XX may be MR or NU)

**Conductors:** 26 AWG  $7 \times 34$  [  $7 \times 0.160$  ] Tinned Stranded Copper

**Shielding:** .001 [ 0.03 ] Thick Aluminum/Polyester Film Foil and 90% Coverage Tinned Copper Braid

## Electrical

**Voltage Rating:** USA: N.E.C. 725, CL2 AWM 300V Canada: 150V EU: <50V

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

Unbalanced	Balanced
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Characteristic Impedance: 51 $\Omega$	100 $\Omega$
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Capacitance: 35.6 pF/ft (116.8 pF/m)	18.1 pF/ft (59.4 pF/m)
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Inductance: .09 $\mu$ H/ft (0.30 $\mu$ H/m)	.18 $\mu$ H/ft (0.59 $\mu$ H/m)
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Propagation Delay: 1.82 ns/ft (5.97 ns/m)	1.81 ns/ft (5.94 ns/m)
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Velocity of Propagation: 56%	56%
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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:** USA: CL2: 75°C Max Canada: 80°C

**Flammability Rating:** USA: N.E.C. 725, CL2 Canada: FT1

\* RoHS = Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment  
"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

UL File No.: E118773, Power limited Circuit Cable; CL2

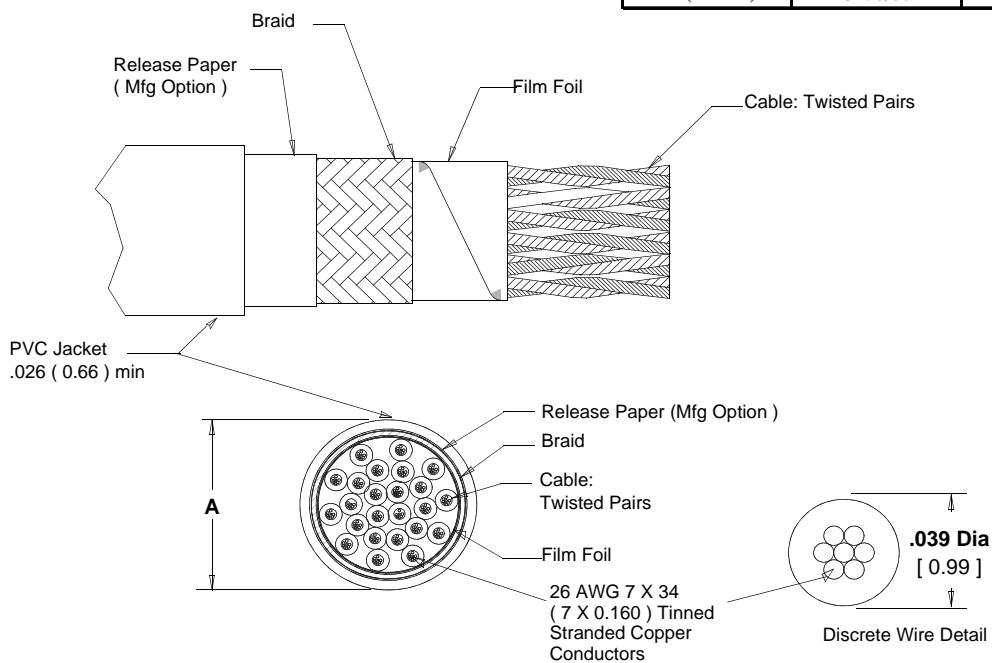
# 3M™ Round, Shielded/Jacketed, Disc. Wire Cable

26 AWG Stranded, Twisted Pair, PVC/PVC

3750 Series



Number of Conductors	3M Part Number	Dimension A ± .03
10 (5 Pair)	3750/10	.26 [ 6.6 ]
16 (8 Pair)	3750/16	.31 [ 7.9 ]
26 (13 Pair)	3750/26	.37 [ 9.4 ]
38 (19 Pair)	3750/38	.43 [ 10.9 ]
50 (25 Pair)	3750/50	.49 [ 12.4 ]
60 (30 Pair)	3750/60	.52 [ 13.2 ]



Pair Identification													
Pairs	Cond	1st Conductor		Cond	2nd Conductor		Pairs	Cond	1st Conductor		Cond	2nd Conductor	
		Solid	Band		Solid	Band			Solid	Band		Solid	Band
1	1	Black	Red	2	Red	Black	17	33	Green	Brown	34	Brown	Green
2	3	Black	White	4	White	Black	18	35	Green	Orange	36	Orange	Green
3	5	Black	Green	6	Green	Black	19	37	White	Blue	38	Blue	White
4	7	Black	Blue	8	Blue	Black	20	39	White	Yellow	40	Yellow	White
5	9	Black	Yellow	10	Yellow	Black	21	41	White	Brown	42	Brown	White
6	11	Black	Brown	12	Brown	Black	22	43	White	Orange	44	Orange	White
7	13	Black	Orange	14	Orange	Black	23	45	Blue	Yellow	46	Yellow	Blue
8	15	Red	White	16	White	Red	24	47	Blue	Brown	48	Brown	Blue
9	17	Red	Green	18	Green	Red	25	49	Blue	Orange	50	Orange	Blue
10	19	Red	Blue	20	Blue	Red	26	51	Brown	Yellow	52	Yellow	Brown
11	21	Red	Yellow	22	Yellow	Red	27	53	Orange	Yellow	54	Yellow	Orange
12	23	Red	Brown	24	Brown	Red	28	55	Brown	Orange	56	Orange	Brown
13	25	Red	Orange	26	Orange	Red	29	57	Violet	Red	58	Red	Violet
14	27	Green	White	28	White	Green	30	59	Violet	White	60	White	Violet
15	29	Green	Blue	30	Blue	Green	31	61	Violet	Green	62	Green	Violet
16	31	Green	Yellow	32	Yellow	Green	32	63	Violet	Blue	64	Blue	Violet

Inch  
[mm]

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

[ ] Dimensions for Reference only

## Ordering Information

3750/XX

Number of Conductors

Note: Available in standard lengths of 100 feet or 300 feet per roll. Please specify when ordering.

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