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3M™ Round, Jacketed, Flat Cable, 3759/09, 100 ft. SF



9 conductors, .050" 28 AWG Stranded, Mass-Term, PVC/PVC, 100 foot Splice-free roll.

GTIN(UPC/EAN) : 0 00 51138 42092 5

3M Id : 80-6108-0256-5

Characteristics

Balanced Capacitance	11.9 pF/ft (39.0 pF/m)
Balanced Inductance	.21 microHenry/ft (0.69 microHenry/m)
Balanced Propagation Delay	1.58 ns/ft (5.18 ns/m)
Cable Marking	UL CL2 75C 28 AWG OR AWM 20267 3M NU CUL AWM IIA/B 80C 300V
Cable Style	Round
Capacitance -- Balanced	11.9 Picofarad
Capacitance -- Unbalanced	16.7 Picofarad
Characteristic Impedance -- Balanced	133 Ohm
Characteristic Impedance --	90 Ohm

Unbalanced	
Color	Black
Conductor Material	Copper
Conductor Resistance	65 Ohm
Conductors	28 AWG 7x36 [7x0.127] Tinned Stranded Copper
EPC Can View	Public
EU RoHS Compliant	Yes
First Position Marking	Red
Flammability Rating -- Canada	FT1
Flammability Rating -- EU	None
Flammability Rating--USA	N.E.C. 725, CL2
Impedance -- Balanced	133 Ohm
Impedance -- Unbalanced	90 Ohm
Inductance -- Balanced	.21 Microhenry
Inductance -- Unbalanced	.14 Microhenry
Inner Wrap	Polyester Film
Insulation Material	Polyvinyl Chloride (PVC)
Insulation Resistance	(Primary Cable) >1x10 ¹⁰ Ohm/10ft. [3m]
Jacket	Yes
Jacket Color	Black
Jacket Material	Polyvinyl Chloride (PVC)
Lower Temperature Rating	-20 Degree Celsius
Marking Standard	(UL) CL2 75C 28 AWG OR AWM 20267 3M NU C AWM II A/B 80C 300V FT1 EU <50V
Number of Conductors	9
Pitch	0.050 Inch
Plating Material	Tin
Primary Configuration	Parallel Split
Primary Insulation Color	Gray
Primary Insulation Material	Polyvinyl Chloride (PVC)
Primary Material	PVC
Propagation Delay -- Balanced	1.58 Nanosecond
Propagation Delay -- Unbalanced	1.50 Nanosecond
Repeat Length	2.375 Inch
Shape	Round
Shield	No
Stranding	7 X 36 [7 X 0.127]
Temperature Rating: Canada	80 Degree C
Temperature Rating: USA	N.E.C. 725, CL2 or AWM: -20 DegreeC to +80 DegreeC
UL File Number	E118773
UL Listed -- USA	N.E.C. Article 725, CL2
UL Recognized -- USA	AWM Style 20267
UL Recognized-- Canada	I/A/B
Unbalanced Capacitance	16.7 pF/ft (54.8 pF/m)
Unbalanced Inductance	0.14 microHenry/ft (0.46 microHenry/m)

Unbalanced Propagation Delay	1.50 ns/ft (4.92 ns/m)
Upper Temperature Rating -- Canada	80 Degree Celsius
Upper Temperature Rating -- USA	80 Degree Celsius
Velocity of Propagation--Balanced	64%
Velocity of Propagation--Unbalanced	68%
Voltage Rating -- Canada	300 Volt
Voltage Rating -- EU	>0 to <50 Volt
Voltage Rating--USA	N.E.C. 725, CL2 or AWM; 300V
Voltage Rating: Canada	300V
Voltage Rating: EU	<50V
Wire Gauge	28 American Wire Gauge (AWG)

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3M™ Round, Jacketed, Flat Cable, 3759/09, 100 ft. SF Packaging

3M Id: 80-6108-0256-5

Minimum Order Quantity: 3.0 RLS

Case Quantity: 3.0 RLS

	English	Metric
Length	10.8 INCH	0.274 MTR
Width	10.4 INCH	0.264 MTR
Height	4.9 INCH	0.124 MTR
Gross Weight	4.5000 LBS	2.0412 KG

3M™ Round, Jacketed, Flat Cable

.050" 28 AWG Stranded, Mass-Term, PVC/PVC

3759 Series




- Round construction permits easier routing
- 28 AWG wire on .050 inch centers permits mass termination to broad line of IDC connectors
- Continuous bond and continuous split/bond allows for mass termination of IDC connectors
- Available in continuous bond (non-split) wire for ease of cable fabrication
- Meets external wiring requirements of National Electrical Code, Article 725 (CL2)
- Primary cable is zippable for branching or discrete terminations
- UL listed for USA and Canadian markets
- RoHS* compliant

Date Modified: November 15, 2006

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Physical

Jacket Material: Polyvinyl Chloride (PVC); **Color:** Black
Primary Material: PVC; **Color:** Gray
Marking Standard: (UL) CL2 75C 28 AWG or AWM 20267 3M NU C  WM II A/B 80C 300V FT1 EU <50V
Conductors: 28 AWG, 7 × 36 AWG [7 × ø 0.217] Tinned Stranded Copper
Inner Wrap: Polyester Film

Electrical

Voltage Rating:	USA: N.E.C. 725, CL2 or AWM; 300V	Canada: 300V	EU: <50V
Insulation Resistance:	(Primary Cable) > 1 × 10 ¹⁰ Ω/10 ft. [3m]		
	Unbalanced	Balanced	
Characteristic Impedance:	90 Ω	133 Ω	
Capacitance:	16.7 pF/ft [54.8 pF/m]	11.9 pF/ft [39.0 pF/m]	
Inductance:	0.13 μH/ft [0.44 μH/m]	0.21 μH/ft [0.69 μH/m]	
Propagation Delay:	1.50 ns/ft [4.92 ns/m]	1.58 ns/ft [5.18 ns/m]	
Velocity of Propagation:	68%	64%	

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

Environmental

Temperature Rating: USA: CL2; 75°C or AWM; -20°C to + 80°C Canada: 80°C
Flammability Rating: USA: N.E.C. 725, CL2 Canada: FT1

"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 (or AWM Style 20267)

3M™ Round, Jacketed, Flat Cable

.050" 28 AWG Stranded, Mass-Term, PVC/PVC

3759 Series



Inch
[mm]

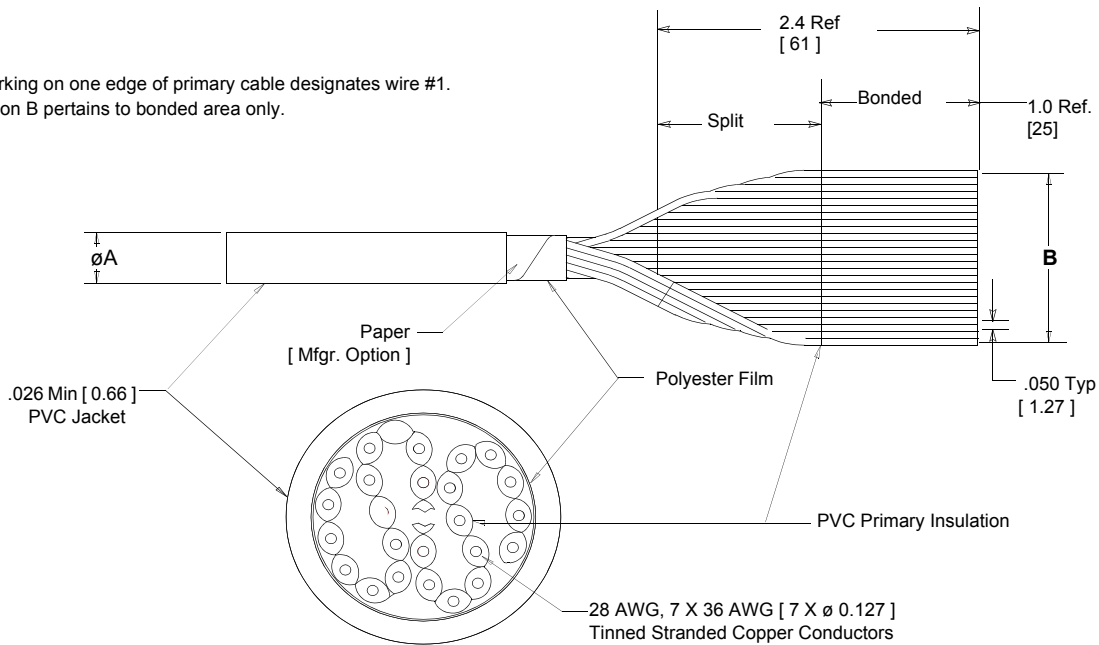
Tolerance Unless Noted			
Inch	.0	.00	.000
	±.1	±.05	±.010

[] Dimensions for Reference only

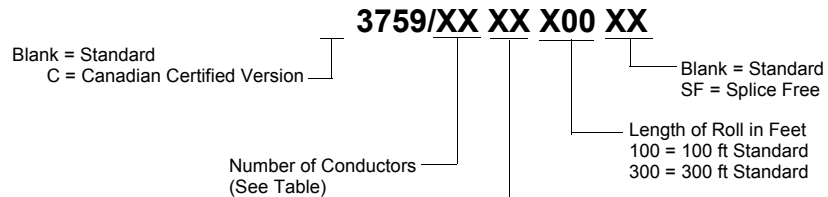
Number of Conductors	3M Part Number	Diameter A ± .03	Dimension B (See Note 2)
09	3759/09	0.26 [6.6]	0.40 [10.2]
10	3759/10	0.26 [6.6]	0.45 [11.4]
14	3759/14	0.27 [6.9]	0.65 [16.5]
15	3759/15	0.27 [6.9]	0.70 [17.8]
16	3759/16	0.27 [6.9]	0.75 [19.1]
20	3759/20	0.30 [7.6]	0.95 [24.1]
24	3759/24	0.33 [8.4]	1.15 [29.2]
25	3759/25	0.33 [8.4]	1.20 [30.5]
26	3759/26	0.33 [8.4]	1.25 [31.8]
30	3759/30	0.37 [9.4]	1.45 [36.8]
34	3759/34	0.37 [9.4]	1.65 [41.9]
36	3759/36	0.39 [9.9]	1.75 [44.5]
37	3759/37	0.39 [9.9]	1.80 [45.7]
40	3759/40	0.39 [9.9]	1.95 [49.5]
50	3759/50	0.44 [11.2]	2.45 [62.2]
60	3759/60	0.47 [11.9]	2.95 [74.9]
64	3759/64	0.50 [12.7]	3.15 [80.0]

Notes:

1. Red marking on one edge of primary cable designates wire #1.
2. Dimension B pertains to bonded area only.



Ordering Information



Note: Contact 3M for availability of additional conductor counts and/or custom roll lengths.

Blank = Continuous Split/Bonded Wire (Standard)
SO = Continuously Bonded Wire (No Split)

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