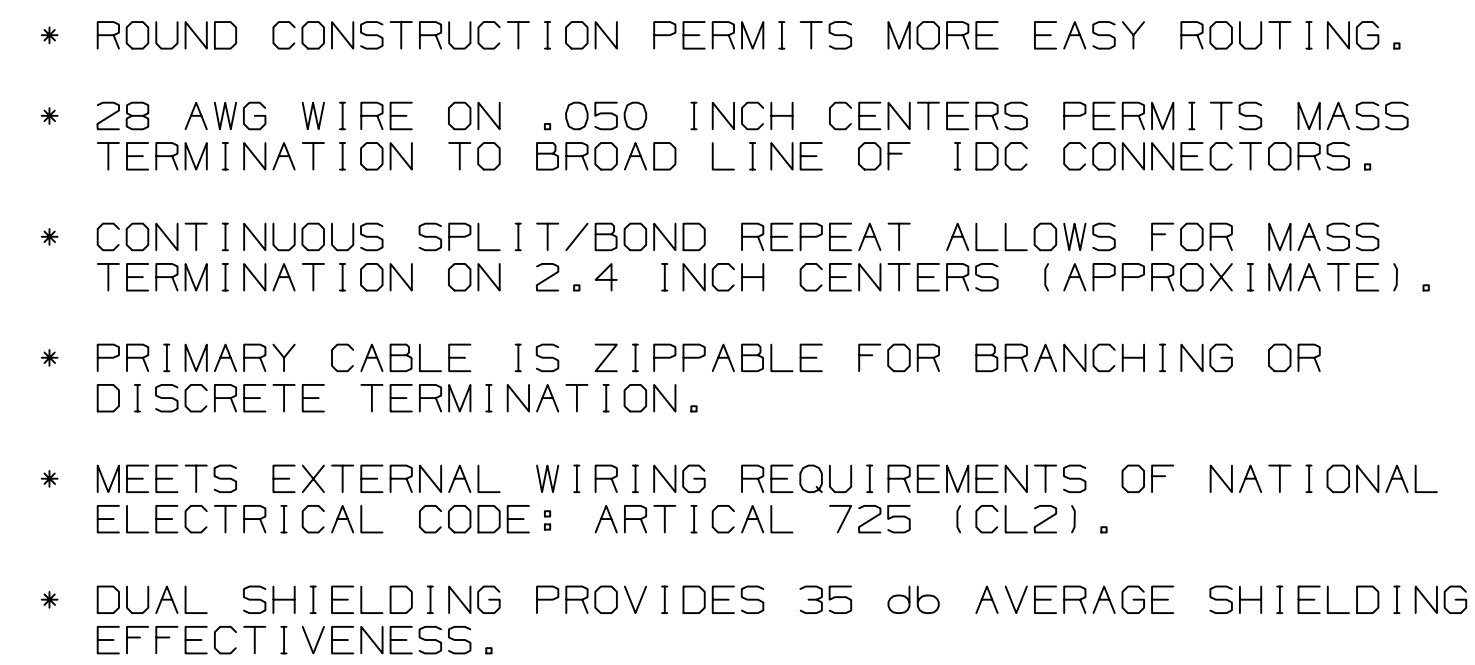


.050" 28 AWG STRANDED, MASS TERMINATABLE, PVC/PVC



1. REGULATORY INFORMATION:
VISIT 3M.com/regs
2. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
3. RED MARKING ON ONE EDGE OF PRIMARY CABLE DESIGNATES WIRE #1.
4. DIMENSION "B" PERTAINS TO BONDED AREA ONLY.

3659 / XX XX XX

- BLANK = STANDARD
SF = SPLICE FREE

NOTE:
AVAILABLE IN STANDARD LENGTHS OF 100 FT OR 300 FT ROLLS,
PLEASE SPECIFY WHEN ORDERING.
CONTACT 3M FOR AVAILABILITY OF ADDITIONAL CONDUCTOR COUNTS
AND/OR CUSTOM ROLL LENGTHS.

2 PHYSICAL :

MARKING: SEE "PRINTING ILLUSTRATION" BELOW
STANDARD: 28 AWG, 7 X 36 AWG [7 X Ø.127] TINNED STRANDED COPPER
CONDUCTORS: .001 [.03] THICK ALUMINUM/POLYESTER FILM FOIL AND 90%
SHIELDING: COVERAGE TINNED COPPER BRAID.

2 ELECTRICAL :

	UNBALANCED	BALANCED
CHARACTERISTIC IMPEDANCE:	62Ω	106Ω
CAPACITANCE:	27.7 pF/ft [90.88 pF/m]	15.2 pF/ft [49.9 pF/m]
INDUCTANCE:	0.11 μH/ft [0.35 μH/m]	0.17 μH/ft [0.57 μH/m]
PROPAGATION DELAY:	1.72 ns/ft [5.64 ns/m]	1.62 ns/ft [5.31 ns/m]
VELOCITY OF PROPAGATION:	59%	62%

NOTE: UNBALANCED IS MEASURED BETWEEN GROUND-SIGNAL-GROUND CONDUCTORS
WITH SHIELD GROUNDED.
BALANCED IS MEASURED BETWEEN SIGNAL CONDUCTORS WITHIN A PAIR.
WITH THE SHIELD FLOATING.

2 ENVIRONMENTAL :

FLAMMABILITY RATING: USA; N.E.C. 725, CL2
CANADA; FT1

CONTACT 3M FOR AVAILABLE OF ADDITIONAL
CONDUCTOR COUNTS.

"PRINTING ILLUSTRATION"

UL® CL2 75°C 28 AWG OR AWM 20267 3M NU **UL® AWM II A/B 80°C 300V FT1 EU <50V**



UL FILE NUMBER:
E118773, CL2 (VOLUME 1, SECTION 1)
E42769, STYLE 20267

DIMENSIONS: INCHES [MM]
[MM] IS FOR REF. ONLY

D	122370	APR 16, 2025 REVISE DIM A	JNC	FJR
C	64249	JUN 28, 2023 REVISE NOTES AND REDRAW	JNC	FJR
B	23307	APR 24, 2009 REVISE NOTES	RED	ARM
A	23052	APR 07, 2009 REVISE ORDERING INFO	RED	ARM

REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DRFT	DATE		MFG	DATE	
CST	JUN 28, 2023				
CHKD	DATE		APPRV	DATE	
			RODRIGUEZ	JUN 28, 2023	

3M 3M Center
St. Paul,
MN 55144

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TITLE
RD SHIELDED/JACKETED, FLAT CABLE, 3659 SERIES

CAGE NUMBER	SIZE D	DRAWING NO. 78-5100-0083-5	REV. D
MODEL 3659		DET. LISTS ☐ YES ☒ NO	SHT 1 OF 2

DESIGN REFERENCE				NEXT ASSEMBLY			
ACCESS CODES							
DIVISION				DIVISION CODE			
				DEPP			
DO NOT SCALE DRAWING				TOLERANCES EXCEPT AS NOTED			
				INCHES			
THIRD ANGLE PROJECTION				.0 ± .1			
				.00 ± .05			
				.000 ± .010			
				.0000 ± .0005			
INTERPRET PER ASME Y14.5 - 2018				MILLIMETERS			
 MAX SURFACE ROUGHNESS ☐ ALL SURFACES ☒ MARKED ONLY 				0 ±			
				.00 ±			
				.000 ±			
				 ANGLES ± 			

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INFORMATION CALL 800-225-5373

3M™ ROUND SHIELDED/JACKETED, FLAT CABLE, 3659 SERIES
.050" 28 AWG STRANDED, MASS TERMINATABLE, PVC/PVC

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

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			CHKD	DATE	APPROV P. RODRIGUEZ
DIVISION			DIVISION CODE DEPP		
DO NOT SCALE DRAWING			SCALE		
			TOLERANCES EXCEPT AS NOTED		
			INCHES .00 ± .01 .000 ± .010 .0000 ± .0005		
THIRD ANGLE PROJECTION			MILLIMETERS 0 ± 0.0 ± .000		
INTERPRET PER ASME Y14.5 - 2018			CAGE NUMBER SIZE DRAWING NO.		
MAX SURFACE ROUGHNESS			D 78-5100-0083-5		
ALL SURFACES			REV. D		
✓ MARKED ONLY			DET. LISTS YES ☒ NO SHT 2 OF 2		
			MODEL 3659		