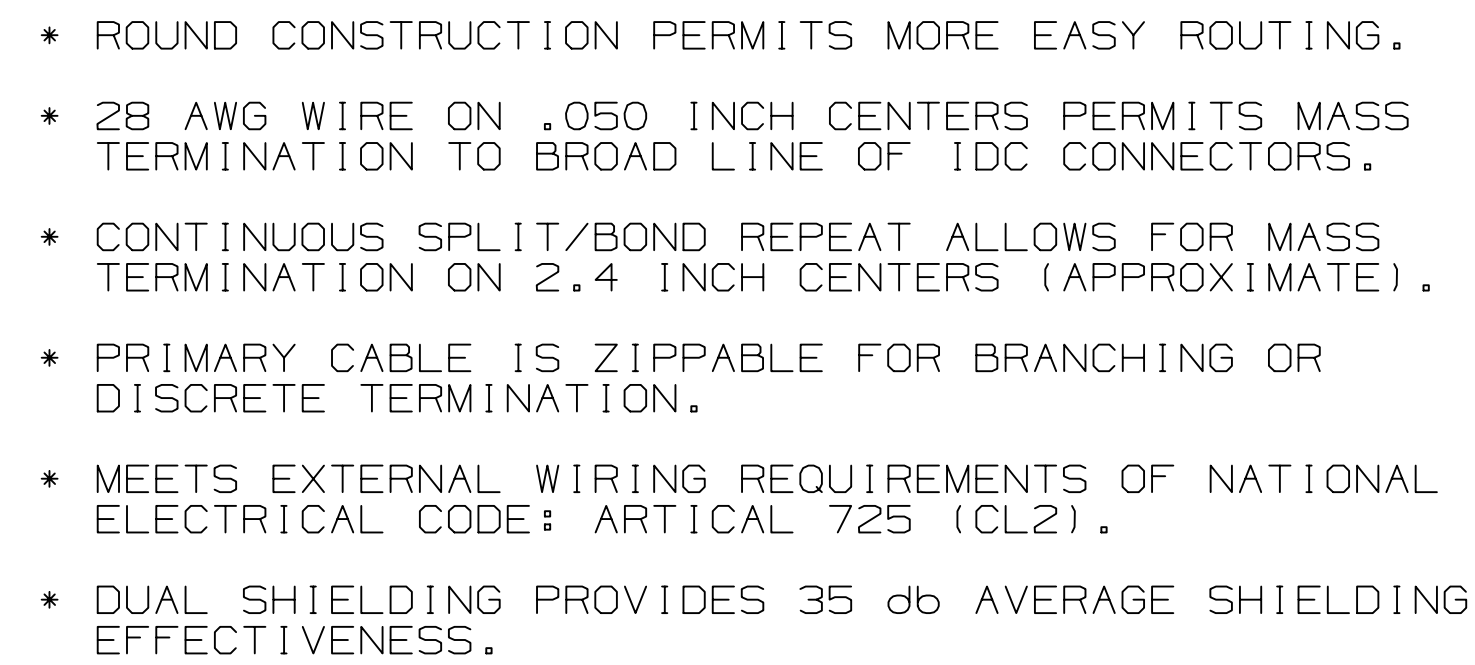


.050" 28 AWG STRANDED, MASS TERMINATABLE, PVC/PVC



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"

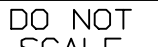
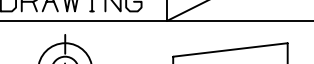
UL® CL2 75°C 28 AWG OR AWM 20267 3M NU **UL® AWM II A/B 80°C 300V FT1 EU <50V**



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

DESIGN REFERENCE				NEXT ASSEMBLY				REV		ECO		ISSUE DATE AND DESCRIPTION						DRFT		CHKD	
ACCORDS								BYP		CASTIGLIONE		DATE JUN 28, 2023				INFO		DATE			
								CHKD				DATE				APPRV. F. RODRIGUEZ		DATE JUN 28, 2023			
DIVISION				DIVISION CODE DEPP						3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2025 This document and the information it contains are 3M proprietary and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.									
				TOLERANCES EXCEPT AS NOTED																	
																					
THIRD ANGLE PROJECTION				INCHES :0 ±.1 .00 ±.05 .000 ±.010 .0000 ±.0005				TITLE		RD SHIELDED/JACKETED , FLAT CABLE , 3659 SERIES											
INTERPRET PER ASME Y14.5 - 2018				MILLIMETERS 0 ± .0 .00 ± .000 ±				CAGE NUMBER		SIZE		DRAWING NO.						REV.			
				☒ ALL SURFACES ☐ MARKED ONLY				D		78-5100-0083-5		D						D			
				ANGLE ±				MODEL		3659		DET.		YES YES NO NO		SHT 1 OF 2					

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FOR TECHNICAL, SALES OR ORDERING
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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D	12370		APR 16, 2025	JNC	FJR
C	64249		REVISE DIM A	JNC	FJR
B	23307		REVISE NOTES AND REDRAW	RED	ARM
A	23052		APR 24, 2009 REVISE NOTES	RED	ARM
			APR 07, 2009 REVISE ORDERING INFO	RED	ARM
CHASSIS REFERENCE NEXT ASSEMBLY			REV ECO ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ACCESS CODES			DRFT CASTIGLIONE	DATE JUN 28, 2023	MFG DATE
DIVISION			CHKD DATE	APPROV F. RODRIGUEZ	DATE JUN 28, 2023
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		TOLERANCES EXCEPT AS NOTED	TITLE		
THIRD ANGLE PROJECTION		INCHES 0 ± .00 ± .05 .000 ± .010 .0000 ± .0005	RD SHIELDED/JACKETED, FLAT CABLE , 3659 SERIES		
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS 0 ± .0 ± .000 ±	CAGE NUMBER SIZE DRAWING NO.		REV.
MAX SURFACE ROUGHNESS		0 ±	D 78-5100-0083-5		D
ALL SURFACES		.000 ±			
MARKED ONLY		ANGLES ±	MODEL 3659		LISTS DYES YES NO SHT 2 OF 2