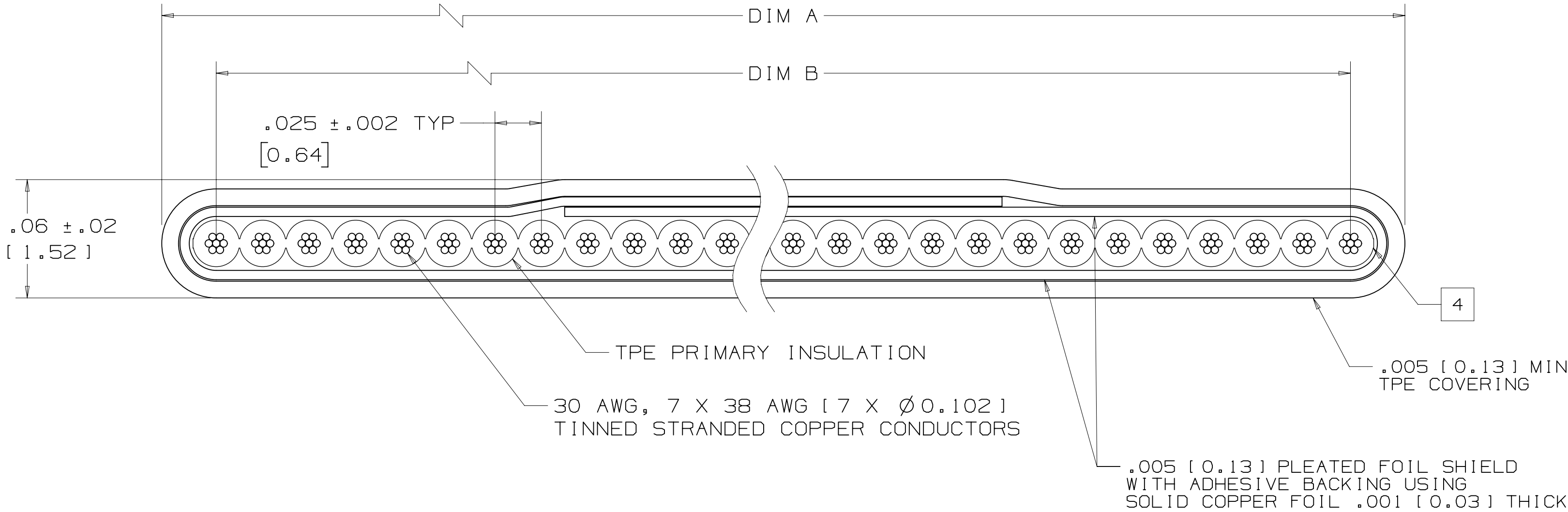


3M™ PLEATED FOIL SHIELDED CABLE, 90202 SERIES
.025" 30 AWG STRANDED, TPE PRIMARY, THIN TPE COVER



ORDERING INFORMATION

90202/XX XX

BLANK = STANDARD
C = CANADIAN CERTIFIED
VERSION

NUMBER OF CONDUCTORS
(SEE TABLE)

BLANK = STANDARD
SF = SPLICE FREE

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

TABLE 1			
NUMBER OF CONDUCTORS	3M PART NUMBER	DIMENSION A	DIMENSION B
20	90202/20	0.54 [13.7]	0.475±.006 [12.06]
26	90202/26	0.69 [17.5]	0.625±.006 [15.88]
36	90202/36	0.94 [23.9]	0.875±.009 [22.23]
40	90202/40	1.04 [26.4]	0.975±.009 [24.77]
50	90202/50	1.29 [32.8]	1.225±.009 [31.11]
60	90202/60	1.54 [39.1]	1.475±.012 [37.47]
68	90202/68	1.74 [44.2]	1.675±.012 [42.55]
80	90202/80	2.04 [51.8]	1.975±.015 [50.17]
100	90202/100	2.54 [64.5]	2.475±.017 [62.87]

PHYSICAL :

INSULATION MATERIAL: THERMOPLASTIC ELASTOMER, TPE
COLOR: GRAY
PRIMARY MATERIAL: THERMOPLASTIC ELASTOMER, TPE (TPO TYPE)
COLOR: GRAY

MARKING
STANDARD: NONE
CANADIAN OPTION: SEE "PRINTING ILLUSTRATION" VIEW

CONDUCTORS
MATERIAL: 30 AWG, 7 X 38 AWG (7 X Ø0.102)
TINNED STRANDED COPPER
SHIELDING: SOLID, PLEATED, COPPER FOIL

ELECTRICAL :

VOLTAGE RATING: USA: 150V CANADA: 150V EU: <50V
INSULATION RESISTANCE: (PRIMARY) >1 X 10⁹Ω/10ft. [3m]

CHARACTERISTIC IMPEDANCE:	UNBALANCED 46.1Ω	BALANCED 88.5Ω
CAPACITANCE:	35.3 pF/ft [116 pF/m]	18.3 pF/ft [60 pF/m]
INDUCTANCE:	0.08μH/ft [0.25μH/m]	0.14μH/ft [0.47μH/m]
PROPAGATION DELAY:	1.63 ns/ft [5.35 ns/m]	1.62 ns/ft [5.31 ns/m]
VELOCITY OF PROPAGATION:	62%	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.

ENVIRONMENTAL :

TEMPERATURE RATING: -20°C TO +105°C
FLAMMABILITY RATING: USA: VW-1 CANADA: FT1



CANADIAN OPTION
"PRINTING ILLUSTRATION"



AWM 20297 105C 150V VW1 3M NU



AWM 1A 105C 150V FT1 EU <50V

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3M.com/interconnect>

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FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

NOTES

- REGULATORY INFORMATION:
FOR REGULATORY INFORMATION
ABOUT THIS PRODUCT, VISIT
3m.com/regs OR CONTACT
YOUR 3M REPRESENTATIVE.

UL FILE NO: E118773, POWER
LIMITED CIRCUIT CABLE: CL2
- CAN BE USED WITH IDC MASS
TERMINATION CONNECTORS.
- PLEATED COPPER FOIL PROVIDES
FLEXIBILITY AND 35db AVERAGE
SHIELDING EFFECTIVENESS.
- BLUE MARKING ON ONE EDGE OF
PRIMARY CABLE DESIGNATES
WIRE #1.

DIMENSIONS: INCH [MM]

INCH [MM]			
TOLERANCE - UNLESS NOTED			
	.X	.XX	.XXX
INCH	±.1	±.05	±.010
[] = DIM. FOR REFERENCE ONLY			

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
CODES		L	SCHMIDT	DEC 16, 2021		
DIVISION	DIVISION CODE	CHKD	DATE	APPR	DATE	
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	INCHES 0.0 0.00 0.002 0.000 ±				
MAX SURFACE ROUGHNESS 125/200 ALL SURFACES MARKED ONLY	ANGLES ±1°	MILLIMETERS 0 0.0 0.00 0.00 ±				
		TITLE				
		3M				
		PLEATED FOIL CABLE 90202 SERIES .025" 30AWG STRANDED				
		CAGE NUMBER	SIZE	DRAWING NO.	REV.	
		D	78-5100-0730-1	F		
		MODEL	DET	LISTS	YES	NO
					SHT	1 OF 2

3M™ PLEATED FOIL SHIELDED CABLE, 90202 SERIES

.025" 30 AWG STRANDED, TPE PRIMARY, THIN TPE COVER

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

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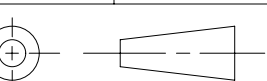
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		F 0101550		JAN 07, 2022		LDS		TRP	
				REDRAWN					
				WORK REQUEST 13221					
DESIGN REFERENCE		NEXT ASSEMBLY		REV ECO		ISSUE DATE AND DESCRIPTION		DRFT CHKD	
ADDRESS CODES 1 2 3 4 5 6 7 8 9 0		DIVISION 1 2 3 4 5 6 7 8 9 0		DATE L SCHMIDT DEC 16, 2021 CHKD		MFG DATE APPVL DATE			
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2022 This document and the information it contains are 3M property and may not be reproduced or further disseminated without the express permission of 3M. All rights reserved.					
DO NOT SCALE DRAWING 		SCALE 4 1		TOLERANCES EXCEPT AS NOTED INCHES .00 ± .000 ± .0000 ± MILLIMETERS .0 ± .00 ± .000 ± ANGLES ± 1°		3M St. Paul, MN 55144			
THIRD ANGLE PROJECTION				TITLE PLEATED FOIL CABLE 90202 SERIES .025" 30AWG STRANDED					
INTERPRET PER ASME Y14.5 - 2018				CASE NUMBER D 78-5100-0730-1		SIZE D		DRAWING NO. 78-5100-0730-1	
MAX SURFACE ROUGHNESS 125 <input type="checkbox"/> ALL SURFACES <input checked="" type="checkbox"/> MARKED ONLY				MODEL DET. 11515		QYES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		SHT 2 OF 2	

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

3M:

[90202/40](#) [90202/68](#) [90202/100](#)