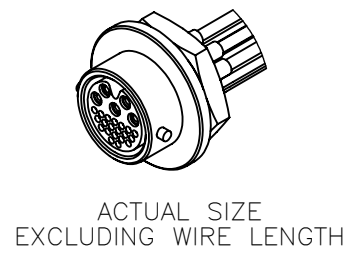
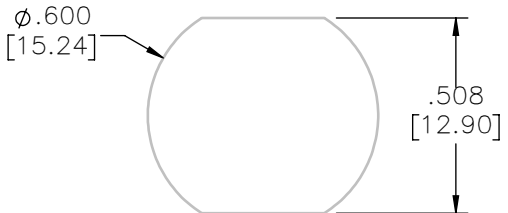
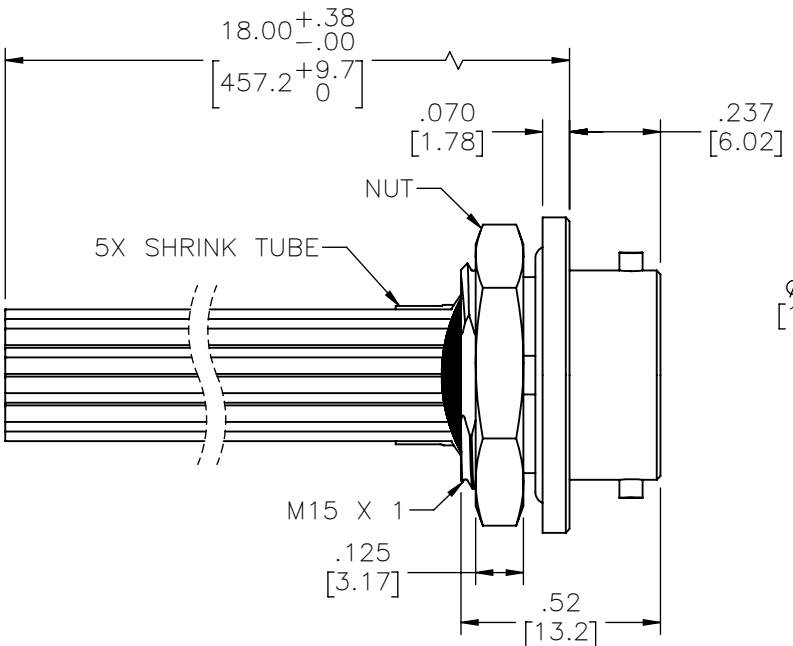
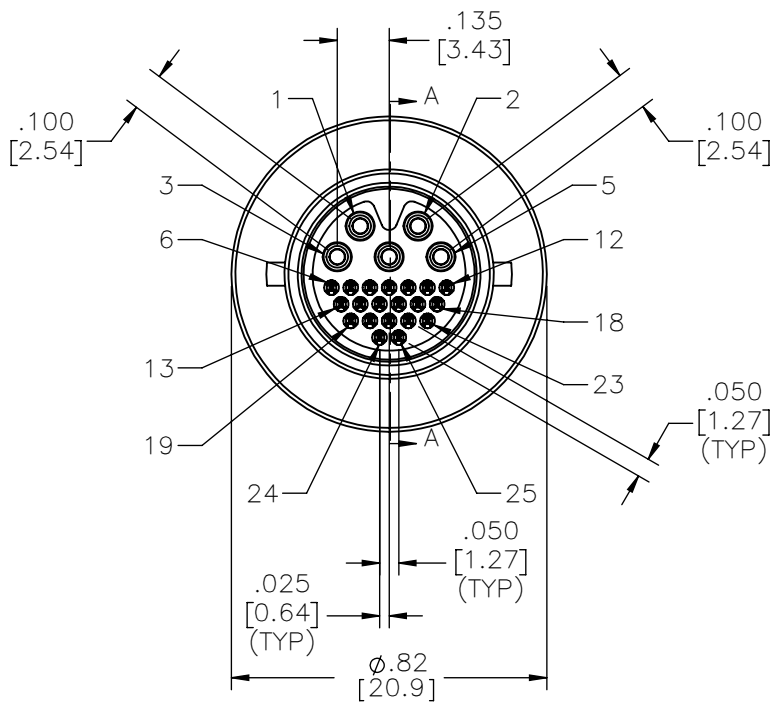
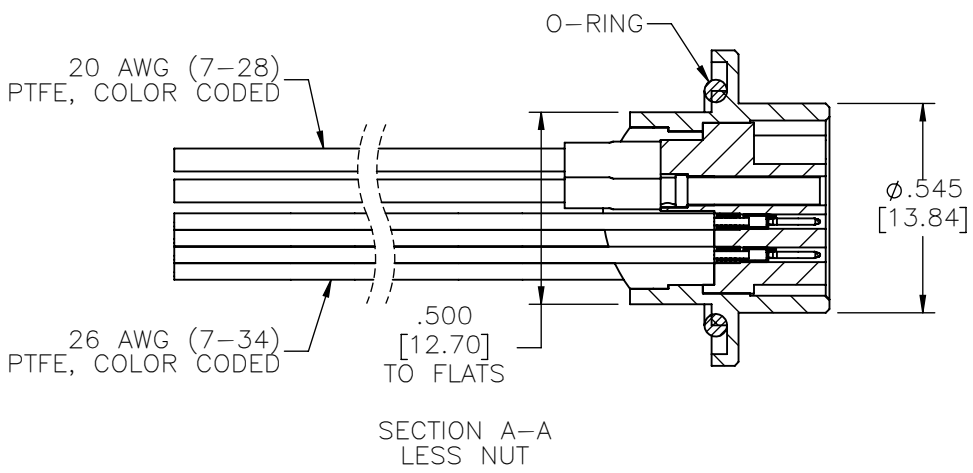


PART NO.	A90174-001	REV	ECO	DATE	APP
		B	104158	01-10-18	HV



NOTE:  
DIMENSIONS IN [ ] ARE IN MILLIMETERS UNLESS OTHERWISE NOTED AND ARE FOR REFERENCE ONLY

TMCP SLDW	THIRD ANGLE
	-TOLERANCES-
	UNLESS OTHERWISE NOTED
	DIMENSIONS IN INCHES
2	PL DEC ± .01
3	PL DEC ± .005
4	PL DEC ± .0005
	ANGLES ± 1°

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DFTM. ACW	DATE 05-13-15
CHK'D.	DATE
APP'D.	DATE

TITLE:  
(5-20) PIN MALE  
TWIST LOCK CONNECTOR  
W/METAL PANEL MOUNT

**OMNETICS**  
CONNECTOR CORPORATION  
7260 COMMERCE CIRCLE EAST  
MINNEAPOLIS, MN 55432  
WWW.OMNETICS.COM

CAGE CODE 61873
DWG NO. A90174-001
SHEET 1 OF 4
SCALE: 2:1
REV B

PART NO.	A90174-001	REV	ECO	DATE	APP
		B	104158	01-10-18	HV

MATERIALS & SPECIFICATIONS

INSULATOR

POLYETHERIMIDE

CONTACT MATERIAL

SIGNAL - COPPER ALLOY PER MIL-DTL-83513

POWER - COPPER ALLOY PER SAE-AS39029

CONTACT FINISH

SIGNAL - GOLD PLATE PER ASTM B488, TYPE II, CLASS 1.27, CODE C OVER NICKEL UNDERPLATE

POWER - GOLD PLATE PER ASTM B488, TYPE II, CLASS 1.27, CODE C OVER NICKEL UNDERPLATE

TERMINATION

SIGNAL - 26 AWG, (7-34) SILVER COATED COPPER, PTFE, COLOR CODED

POWER - 20 AWG, (7-28) SILVER COATED COPPER, PTFE, COLOR CODED

SHELLS

BRASS ALLOY 360

SHELL FINISH

ELECTROLESS NICKEL (200 MICROINCHES MINIMUM) PER SAE-AMS-2404

CONTACT #	COLOR	AWG
1	BLACK	20 AWG
2	BROWN	
3	RED	
4	ORANGE	
5	YELLOW	
6	BLACK	26 AWG
7	BROWN	
8	RED	
9	ORANGE	
10	YELLOW	
11	GREEN	
12	BLUE	
13	VIOLET	
14	GRAY	
15	WHITE	
16	BLACK	
17	BROWN	
18	RED	
19	ORANGE	
20	YELLOW	
21	GREEN	
22	BLUE	
23	VIOLET	
24	GRAY	
25	WHITE	

INTERNAL USE ONLY  
SHEET 4 OF 4 IS  
MANUFACTURING  
LOADING DIAGRAM

TMCP	THIRD ANGLE	THIS DRAWING CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION WHICH IS THE PROPERTY OF OMNETICS CONNECTOR CORP. THIS DOCUMENT MAY NOT, IN WHOLE OR IN PART, BE DUPLICATED, OR DISCLOSED FOR ANY PURPOSE, WITHOUT WRITTEN PERMISSION FROM OMNETICS CONNECTOR CORP.		TITLE: <b>(5-20) PIN MALE TWIST LOCK CONNECTOR W/METAL PANEL MOUNT</b>	 <b>CONNECTOR CORPORATION</b> 7260 COMMERCE CIRCLE EAST MINNEAPOLIS, MN 55432 WWW.OMNETICS.COM	CAGE CODE <b>61873</b>	
	-TOLERANCES- UNLESS OTHERWISE NOTED DIMENSIONS IN INCHES		DFTM. ACW DATE 05-13-15			DWG NO. <b>A90174-001</b>	SHEET 2 OF 4
SLDW	2 PL DEC ± .01	CHK'D.			SCALE: 6:1		
	3 PL DEC ± .005	APP'D.					
	4 PL DEC ± .0005						
	ANGLES ± 1°						

PART NO.	A90174-001	REV	ECO	DATE	APP
		B	104158	01-10-18	HV

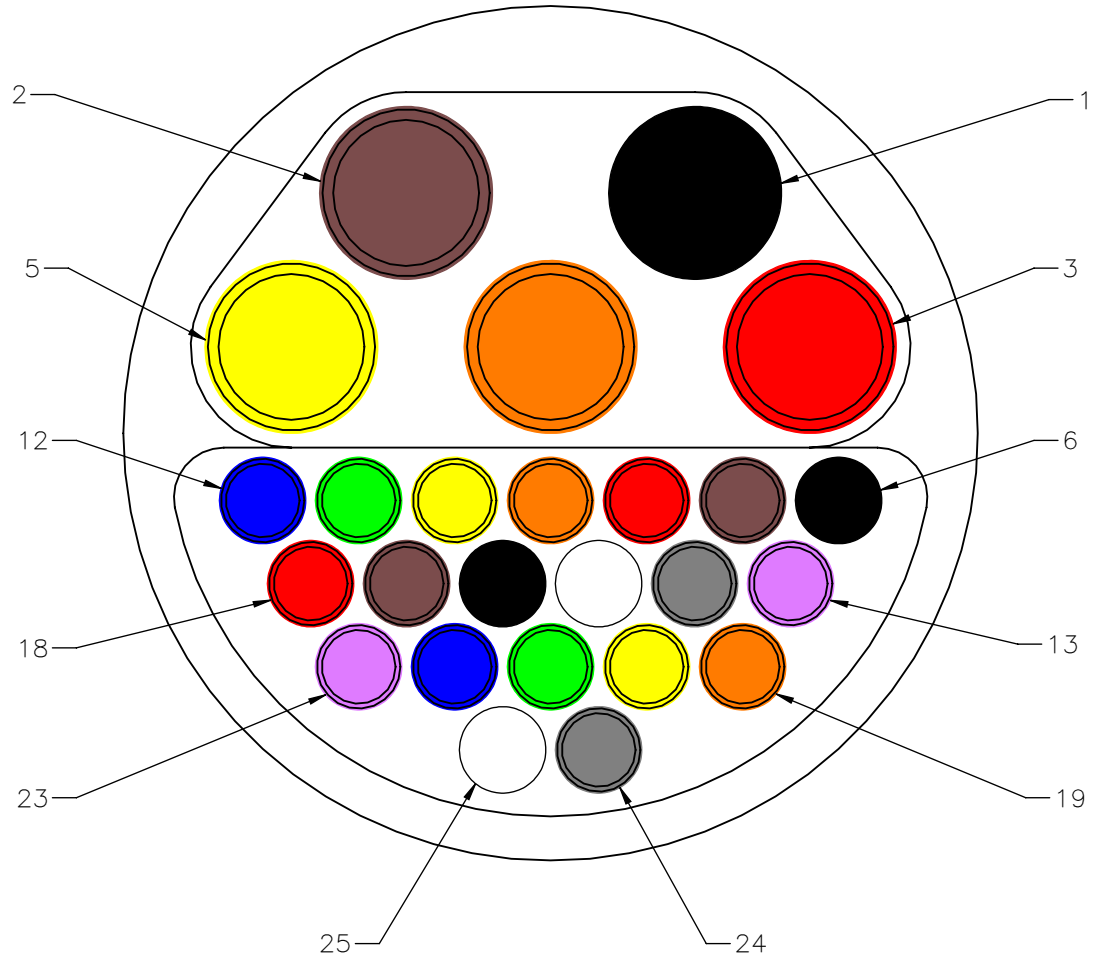
PRODUCT FAMILY TESTED TO AND PASSED THE FOLLOWING PERFORMANCE SPECIFICATIONS

CURRENT RATING:	3 AMPS MAX (SIGNAL CONTACTS)
	10 AMPS MAX (POWER CONTACTS)
DIELECTRIC WITHSTANDING VOLTAGE:	600 VAC RMS (SIGNAL CONTACTS)
	1000 VAC RMS (POWER CONTACTS)
INSULATION RESISTANCE:	5000 MEGAOHMS MIN @ 500 VDC
CONTACT RESISTANCE:	26 MILLIOHMS (65 mV) MAX @ 2.5 AMPS (SIGNAL CONTACTS)
	7 MILLIOHMS (55 mV) MAX @ 7.5 AMPS (POWER CONTACTS)
CONTACT ENGAGEMENT & SEPARATION FORCES:	6 OZ MAX/CONTACT (ENGAGEMENT SIGNAL)
	.5 OZ MIN/CONTACT (SEPARATION SIGNAL)
	18 OZ MAX/CONTACT (ENGAGEMENT POWER)
	.7 OZ MIN/CONTACT (SEPARATION POWER)
TEMPERATURE CYCLING:	-55°C TO +125°C, 5 CYCLES
VIBRATION*:	EIA-364-28, TEST CONDITION IV, 20 g's
MECHANICAL SHOCK*:	EIA-364-27, TEST CONDITION D, 300 g's
DURABILITY:	500 CYCLES

\*PENDING COMPLETION OF TESTING

TMCP SLDW	THIRD ANGLE	THIS DRAWING CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION WHICH IS THE PROPERTY OF OMNETICS CONNECTOR CORP. THIS DOCUMENT MAY NOT, IN WHOLE OR IN PART, BE DUPLICATED, OR DISCLOSED FOR ANY PURPOSE, WITHOUT WRITTEN PERMISSION FROM OMNETICS CONNECTOR CORP.	<b>OMNETICS</b> CONNECTOR CORPORATION 7260 COMMERCE CIRCLE EAST MINNEAPOLIS, MN 55432 WWW.OMNETICS.COM	CAGE CODE <b>61873</b>	
	-TOLERANCES- <small>UNLESS OTHERWISE NOTED DIMENSIONS IN INCHES</small>			DWG NO. <b>A90174-001</b>	
	2 PL DEC ± .01 3 PL DEC ± .005 4 PL DEC ± .0005 ANGLES ± 1°	DFTM. ACW DATE 05-13-15 CHK'D. DATE APP'D. DATE	TITLE: <b>(5-20) PIN MALE TWIST LOCK CONNECTOR W/METAL PANEL MOUNT</b>	SHEET 3 OF 4 SCALE: 2:1	REV B

PART NO.	A90174-001	REV	ECO	DATE	APP
		B	104158	01-10-18	HV



CONTACT #	COLOR	AWG
1	BLACK	20 AWG
2	BROWN	
3	RED	
4	ORANGE	
5	YELLOW	
6	BLACK	26 AWG
7	BROWN	
8	RED	
9	ORANGE	
10	YELLOW	
11	GREEN	
12	BLUE	
13	VIOLET	
14	GRAY	
15	WHITE	
16	BLACK	
17	BROWN	
18	RED	
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TMCP	THIRD ANGLE
	UNLESS OTHERWISE NOTED
SLDW	DIMENSIONS IN INCHES
	2 PL DEC ± .01
	3 PL DEC ± .005
	4 PL DEC ± .0005
	ANGLES ± 1°

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DFTM. ACW DATE 05-13-15  
 CHK'D. DATE  
 APP'D. DATE

TITLE:  
 (5-20) PIN MALE  
 TWIST LOCK CONNECTOR  
 W/METAL PANEL MOUNT

**OMNETICS**  
 CONNECTOR CORPORATION  
 7260 COMMERCE CIRCLE EAST  
 MINNEAPOLIS, MN 55432  
 WWW.OMNETICS.COM

CAGE CODE 61873	REV
DWG NO. A90174-001	B
SHEET 4 OF 4	SCALE: 1:1