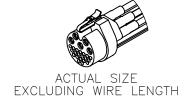
CONTACT #	COLOR	NOTES
1	BLACK	
2	BROWN	
3	RED	20 AWG
4	ORANGE	
5	YELLOW	
6	BLACK	
7	BROWN	
8	RED	
9	ORANGE	
10	YELLOW	26 AWG
11	GREEN	20 AWG
12	BLUE	
13	VIOLET	
14	GRAY	
15	WHITE	

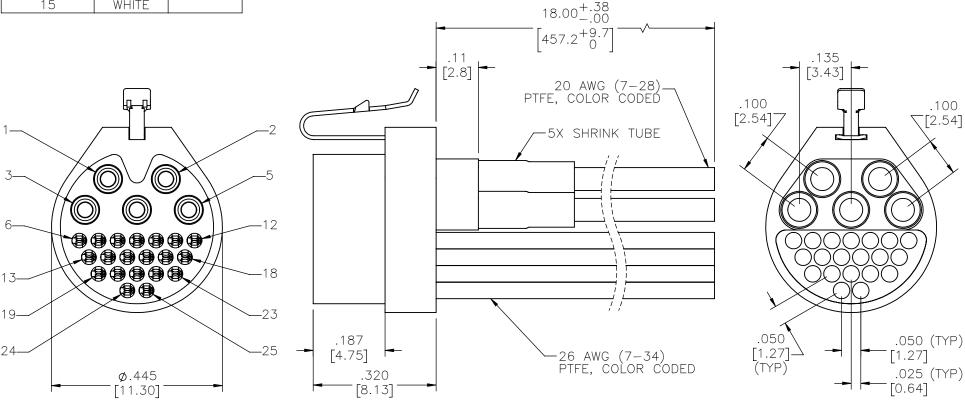
COLOR BLACK BROWN	NOTES
RROWN	
DIVOVIII	
RED	
ORANGE	
YELLOW	26 AWG
GREEN	20 AWG
BLUE	
VIOLET	
GRAY	
WHITE	
	ORANGE YELLOW GREEN BLUE VIOLET GRAY

PART NO. A90115-001 REV ECO DATE APP

C 104158 01-10-18 HV



INTERNAL USE ONLY
SHEET 4 OF 4 IS
MANUFACTURING
LOADING DIAGRAM



## NOTE:

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

	THIRD ANGLE⊕ ←
N N	-TOLERANCES-
18	UNLESS OTHERWISE NOTED
~	DIMENSIONS IN INCHES
	2 PL DEC± .01
lδ	3 PL DEC± .005
Ь	4 PL DEC± .0005
Ĭ	ANGLES ± 1°

THIS DRAWING CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION WHICH IS THE PROPERTY OF OMNETICS CONNECTOR CORP. THIS DOCUMENT MAY NOT, IN WHICLE OR IN PART, BE DUPLICATED, OR DISCLOSED FOR ANY PURPOSE, WITHOUT WRITTEN PERMISSION FROM OMNETICS CONNECTOR CORP.

-	DFTM. ACW	12-12-14	
	CHK'D.	DATE	
	APP'D.	DATE	

(5-20) PIN MALE POWER/SIGNAL PLASTIC CIRCULAR CONNECTOR

## **OMNETICS**

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

CAGE CODE 61873
DWG NO.

corporation A90115-001

SHEET 1 OF 4 REV

PART NO. A90115-001 REV ECO DATE APP

C 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

LATCH MATERIAL
BERYLLIUM COPPER PER ASTM B194

LATCH FINISH
ELECTROLESS NICKEL PER SAE-AMS-2404

TERMINATION

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

PTFE, COLOR CODED

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

	THIRD ANGLE 🕀 🚭	THIS DRAWING CONTAINS CONFIDENTIAL AND	PROPRIETARY INFORMATION WHICH IS THE PROPERTY OF	<b>OMNETICS</b>	CAGE CODE 61	873
≤	-TOLERANCES-	OMNETICS CONNECTOR CORP. THIS DOCUME	INT MAY NOT, IN WHOLE OR IN PART, BE DUPLICATED, OR		ONOL CODE OI	$\mathbf{o}_{i}$
	10221011020	DISCLOSED FOR ANY PURPOSE, WITHOUT W	RITTEN PERMISSION FROM OMNETICS CONNECTOR CORP.		DWG NO	
lτ	ONLESS OFFICIANISE HOTED	DATE				
- 1 '	DIMENSIONS IN INCHES	DFTM. ACW 12-12-14		CONNECTOR CORPORATION	1490115-0	·() 1
_	2 PL DEC± .01 2 3 PL DEC± .005	31 1111 7 1311   1Z=   Z=   Z	(5-20) PIN MALE	CONNECTOR CORPORATION	AJULIU U	UI
(/	) 3 DE DEC. 705	CHK'D.	DOLLED (010) 1 1 1 DT 1 00010	7260 COMMERCE CIRCLE EAST	CLIEFT O OF 4	DEV
ΠĚ	- 3 FL DEC± .003	CHK D.	POWER/SIGNAL PLASTIC		SHEET 2 OF 4	REV
ΙĊ	9 4 PL DEC± .0005	. DATE		MINNEAPOLIS, MN 55432		
⊴	4 PL DEC± .0005 ANGLES ± 1°	APP'D.	CIRCULAR CONNECTOR	WWW.OMNÉTICS.COM	SCALE: 4:1	
- 1 -	· · · · · · · · · · · · · · · · · · ·	/ 11		WWW.OMINETICS.COM	30/\LL. T.I	1

PART NO.	A90115-001	REV	ECO	DATE	APP
		С	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)

6 OZ MAX/CONTACT (ENGAGEMENT SIGNAL) CONTACT ENGAGEMENT & SEPARATION FORCES:

.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

MCP	THIRD ANGLE	OMNETICS CONNECTOR CORP. THIS D DISCLOSED FOR ANY PURPOSE, WITH	AL AND PROPRIETARY INFORMATION WHICH IS THE PROPERTY OF OCUMENT MAY NOT, IN WHOLE OR IN PART, BE DUPLICATED, OR OUT WRITTEN PERMISSION FROM OMNETICS CONNECTOR CORP.
	DIMENSIONS IN INCHES	DFTM. ACW 12-12-	–14 TITLE: (5-20) PIN MALE
$\mathbb{R}$	2 PL DEC± .01 3 PL DEC± .005	CHK'D.	POWER/SIGNAL PLASTIC
P	4 PL DEC ± .0005 ANGLES ± 1°	APP'D.	CIRCULAR CONNECTOR

CAGE CODE 61873

DWG NO. ECTOR CORPORATION A90115-001 7260 COMMERCE CIRCLE EAST SHEET 3 OF 4 MINNEAPOLIS, MN 55432 WWW.OMNÉTICS.COM

REV С SCALE: 4:1

PART NO. A90115-001	REV	ECO	DATE	APP
	С	104158	01-10-18	HV

2		1
5—		3
12		6
18		13
23		19
	25	

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

MCP	THIRD ANGLE	OMNETICS CONNECTOR CO	CONFIDENTIAL AND PROPRIETARY INFORMATION WHICH IS THE PROPERTY OF CORP. THIS DOCUMENT MAY NOT, IN WHOLE OR IN PART, BE DUPLICATED, OR RPOSE, WITHOUT WRITTEN PERMISSION FROM OMNETICS CONNECTOR CORP.	
-	DIMENSIONS IN INCHES	DFTM. ACW 1:		C
SL		CHK'D.	POWER/SIGNAL PLASTIC	7:
$\mathbb{R}$	4 PL DEC± .0005 ANGLES ± 1°	APP'D.	CIRCULAR CONNECTOR	

OF OR	<b>OMNETICS</b>	CAGE CODE 61	873
	OMMEDICS	DWG NO.	
	CONNECTOR CORPORATION	A90115-0	01
	7260 COMMERCE CIRCLE EAST	SHEET 4 OF 4	REV
	MINNEAPOLIS, MN 55432 WWW.OMNETICS.COM	SCALE: 6:1	С