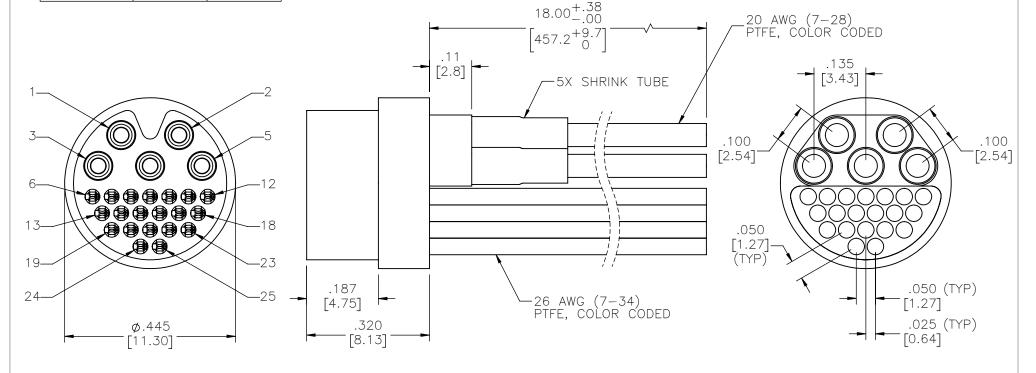
CONTACT #	COLOR	NOTES
1	BLACK	
2	BROWN	
3	RED	20 AWG
4	ORANGE	
5	YELLOW	
6	BLACK	
7	BROWN	
8	RED	
9	ORANGE	
10	YELLOW	26 AWG
11	GREEN	20 AWG
12	BLUE	
13	VIOLET	
14	GRAY	
15	WHITE	

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

PART NO.	A90107-001	REV	ECO	DATE	APP
		С	104157	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 C	-TOLERANCES-
H	UNLESS OTHERWISE NOTED
-	DIMENSIONS IN INCHES
10	2 PL DEC± .01 3 PL DEC± .005
12	3 PL DEC <u>+</u> .005
lb	4 PL DEC± .0005
Iš	ANGLES + 1°

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.

DFTM.	ACW	12-16-14	T
CHK'D.		DATE	
APP'D.		DATE	

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

ECTOR CORPORATION A90107-001 7260 COMMERCE CIRCLE EAST MINNEAPOLIS, MN 55432 WWW.OMNÉTICS.COM

CAGE	CODE	61	873
DWC	NIO		

HEET	1	OF	4	REV
SCAL	E:	4:1		С

APP PART NO. A90107-001 REV ECO DATE C 104157 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 CODÉD

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

THIRD ANGLE TOLERANCES UNLESS OTHERWISE NOTED	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.	C
		C
2 FL DEC± .01 2 3 PL DEC± .005 3 4 PL DEC± .0005	CHK'D. POWER/SIGNAL PLASTIC	72
ANGLES <u>+</u> 1°	APP'D. CIRCULAR CONNECTOR	

ETICS CAGE CODE 61873 DWG NO. ONNECTOR CORPORATION A90107-001 7260 COMMERCE CIRCLE EAST SHEET 2 OF 4 REV MINNEAPOLIS, MN 55432 WWW.OMNÉTICS.COM

С SCALE: 4:1

PART NO. A90107-001 REV ECO DATE APP C 104157 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

500 CYCLES DURABILITY:

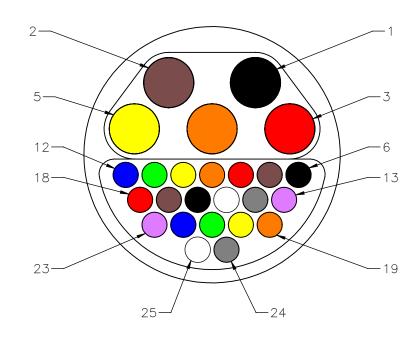
*PENDING COMPLETION OF TESTING

П	THIRD ANGLE⊕ ←	THIS DRAWING CONTAIN	S CONFIDENTIAL AND	PROPRIETARY INFORMATION WHICH IS THE PROPERTY OF
3	-TOLERANCES-			NT MAY NOT, IN WHOLE OR IN PART, BE DUPLICATED, OR
2	LINLESS OTHERWISE NOTED			
U	DIMENSIONS IN INCHES	DETM ACW	DATE	TITLE:
4	2 PL DEC+ 01			(5-20) PIN MALE
2	3 PL DEC± .005	CHK'D.	DATE	POWER/SIGNAL PLASTIC
٦	4 PL DEC+ .0005		DATE	1
≨l	ANGLES ± 1°	APP'D.	DAIL	CIRCULAR CONNECTOR
	MOD SIDW	-TOLERANCES- UNLESS OTHERWISE NOTED DIMENSIONS IN INCHES 2 PL DEC+ .01	O DIMENSIONS IN INCHES 2 PL DEC± .01 3 PL DEC+ .005 OMNETICS CONNECTOR DISCLOSED FOR ANY P DIMENSIONS IN INCHES DFTM. ACW CHK'D	OMNETICS CONNECTOR CORP. THIS DOCUME DISCLOSED FOR ANY PURPOSE, WITHOUT WITH DIMENSIONS IN INCHES 2 PL DEC± .01 3 PL DEC+ .005

CAGE CODE 61873
DWG NO. ECTOR CORPORATION $A90107{-}001$ 7260 COMMERCE CIRCLE EAST SHEET 3 OF 4 MINNEAPOLIS, MN 55432 WWW.OMNÉTICS.COM

REV С SCALE: 4:1

PART NO. A90107-00)1 REV	ECO	DATE	APP
	С	104157	01-10-18	HV



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

MCP	THIRD ANGLE⊕ —TOLERANCES— UNLESS OTHERWISE NOTED	OMNETICS CONNECTOR C	ORP. THIS DOCUMEN	PROPRIETARY INFORMATION WHICH IS THE PROPERTY OF IT MAY NOT, IN WHOLE OR IN PART, BE DUPLICATED, OR TTEN PERMISSION FROM OMNETICS CONNECTOR CORP.	(
	DIMENSIONS IN INCHES	DFTM. ACW 1	12-16-14	TITLE: (5-20) PIN MALE	C
\mathcal{O}		CHK'D.	ATE	POWER/SIGNAL PLASTIC	7.
DW	4 PL DEC± .0005 ANGLES ± 1°	APP'D. □	ATE	CIRCULAR CONNECTOR	

- PR	OMNETICS	CAGE CODE 61873	
	CONNECTOR CORPORATION	A90107-001	
	7260 COMMERCE CIRCLE EAST	SHEET 4 OF 4	REV
	MINNEAPOLIS, MN 55432 WWW.OMNETICS.COM	SCALE: 6:1	С