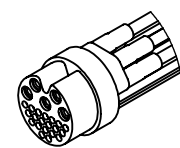


PART NO.	A90107-001	REV	ECO	DATE	APP
		C	104157	01-10-18	HV

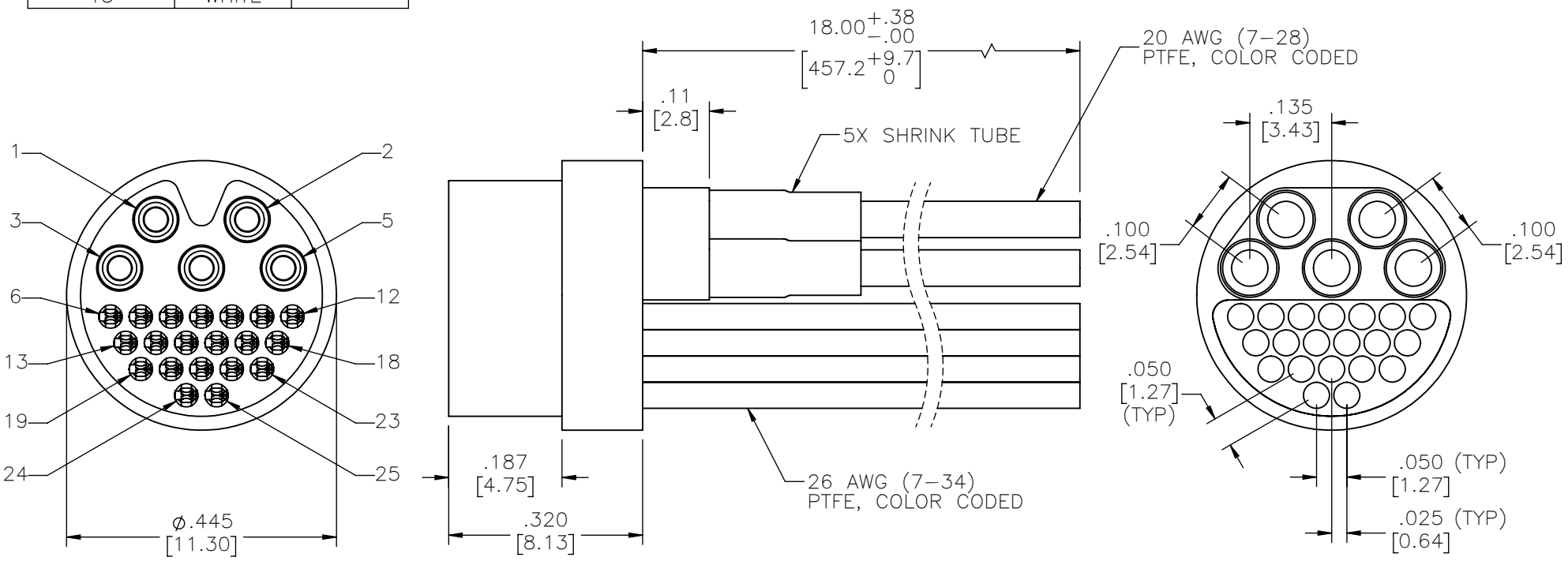
CONTACT #	COLOR	NOTES
1	BLACK	20 AWG
2	BROWN	
3	RED	
4	ORANGE	
5	YELLOW	
6	BLACK	26 AWG
7	BROWN	
8	RED	
9	ORANGE	
10	YELLOW	
11	GREEN	
12	BLUE	
13	VIOLET	
14	GRAY	
15	WHITE	

CONTACT #	COLOR	NOTES
16	BLACK	26 AWG
17	BROWN	
18	RED	
19	ORANGE	
20	YELLOW	
21	GREEN	
22	BLUE	
23	VIOLET	
24	GRAY	
25	WHITE	



ACTUAL SIZE EXCLUDING WIRE LENGTH

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

MCP 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 12-16-14
CHK'D.	DATE
APP'D.	DATE

TITLE:
**(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. A90107-001
SHEET 1 OF 4
SCALE: 4:1
REV C

PART NO.	A90107-001	REV	ECO	DATE	APP
		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 CODED

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


MCP	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.	DATE 12-16-14	TITLE: (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	
	-TOLERANCES- UNLESS OTHERWISE NOTED DIMENSIONS IN INCHES 2 PL DEC ± .01 3 PL DEC ± .005 4 PL DEC ± .0005 ANGLES ± 1°					DWTM. ACW	DATE
SLDW			DATE	APP'D.		SHEET 2 OF 4 SCALE: 4:1	REV C

PART NO.	A90107-001	REV	ECO	DATE	APP
		C	104157	01-10-18	HV

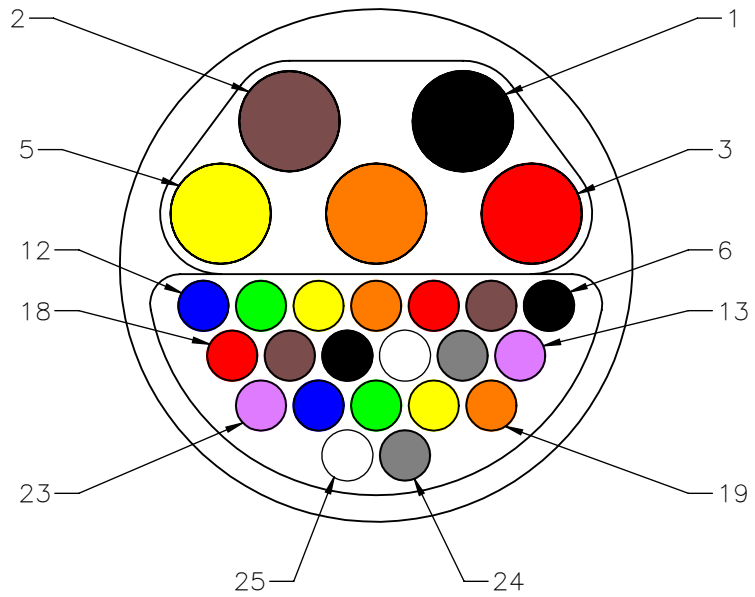
PRODUCT FAMILY TESTED TO AND PASSED THE FOLLOWING PERFORMANCE SPECIFICATIONS

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
DURABILITY:	500 CYCLES

*PENDING COMPLETION OF TESTING

MCP	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.	OMNETICS CONNECTOR CORPORATION 7260 COMMERCE CIRCLE EAST MINNEAPOLIS, MN 55432 WWW.OMNETICS.COM	CAGE CODE 61873	
	—TOLERANCES— UNLESS OTHERWISE NOTED DIMENSIONS IN INCHES			DWG NO. A90107-001	
SLDW	2 PL DEC ± .01	DFTM. ACW DATE 12-16-14	TITLE: (5-20) PIN MALE POWER/SIGNAL PLASTIC CIRCULAR CONNECTOR	SHEET 3 OF 4	
	3 PL DEC ± .005	CHK'D. DATE		REV	
	4 PL DEC ± .0005	APP'D. DATE		SCALE: 4:1	
	ANGLES ± 1°			C	

PART NO.	A90107-001	REV	ECO	DATE	APP
		C	104157	01-10-18	HV



CONTACT #	COLOR	NOTES
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MCP SLDW	THIRD ANGLE
	—TOLERANCES— UNLESS OTHERWISE NOTED DIMENSIONS IN INCHES
	2 PL DEC ± .01
	3 PL DEC ± .005
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	ANGLES ± 1°

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DFTM. ACW DATE 12-16-14
 CHK'D. DATE
 APP'D. DATE

TITLE:
 (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	REV
DWG NO. A90107-001	C
SHEET 4 OF 4	
SCALE: 6:1	