

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

INTERNAL USE ONLY SHEET 4 OF 4 IS MANUFACTURING LOADING DIAGRAM

O-RING-.26 AWG (7-34) PTFE, COLOR CODED 20 AWG (7-28)PTFE, COLOR CODED SPRING OMITTED FOR CLARITY SECTION A—A LESS STRAIN RELIEF ACTUAL SIZE EXCLUDING WIRE LENGTH 18.00+.38 457.2^{+9.7} (.63) ([16] Ø.59 [15]

(2.1) ([54])

A90170-001

REV

В

ECO

104151

PART NO.

NOTE:

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

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 04-24-15 CHK'D. APP'D.

(4-12) SOCKET FEMALE TWIST LOCK CONNECTOR

ECTOR CORPORATION A90170-0017260 COMMERCE CIRCLE EAST MINNEAPOLIS, MN 55432 WWW.OMNÉTICS.COM

CAGE CODE 61873
DWG NO.

APP

ΗV

DATE

01-09-18

SHEET 1 OF 4 REV В SCALE: 2:1

A90170-001 APP PART NO. REV ECO DATE B 104151 01-09-18 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

SHELLS BRASS ALLOY 360

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

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$ \leq$	-TOLERANCES-	OMNETICS CONNECTOR CORP. THIS DOCUME	INT MAY NOT, IN WHOLE OR IN PART, BE DUPLICATED, OR	OMNEHICS	CHOL CODE OI	010
10						
107	DIMENSIONS IN INCHES	DFTM. ACW 04-24-15	(4-12) SOCKET FEMALE	CONNECTOR CORPORATION	IA90170-0	001
100	2 PL DEC± .01	DATE	(4-12) SOCKET TEMALE	7000 0011115505 015015 5107		<u> </u>
12	3 PL DEC± .005	CHK'D.	TWIST LOCK	7260 COMMERCE CIRCLE EAST	SHEET 2 OF 4	REV
Ϊ́	4 PL DEC± .0005	ADD'D DATE	CONNECTOR	MINNEAPOLIS, MN 55432	00115	
	ANGLES ± 1°	APP'D.	CONNECTOR	WWW.OMNETICS.COM	SCALE: 6:1	

A90170-001 PART NO. REV ECO DATE APP B 104151 01-09-18 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

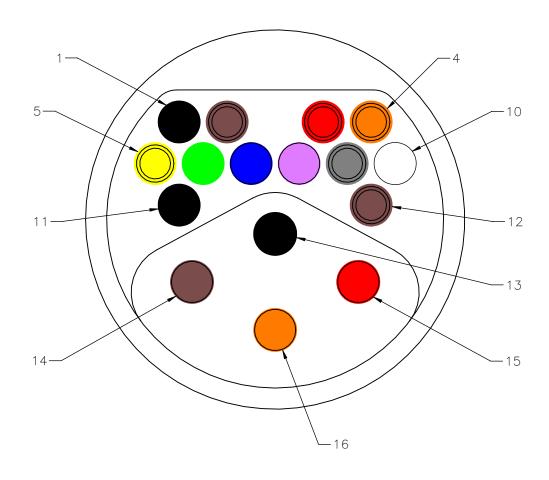
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Š	DIMENSIONS IN INCHES 2 PL DEC+.01	DFTM. ACW 04-24	- 15 TITLE: (4-12) SOCKET FEMALE
SLI	3 PL DEC± .005 4 PL DEC± .0005	CHK'D.	TWIST LOCK
8	ANGLES ± 1°	APP'D.	CONNECTOR

CAGE CODE 61873

DWG NO. ECTOR CORPORATION A90170-0017260 COMMERCE CIRCLE EAST SHEET 3 OF 4 REV MINNEAPOLIS, MN 55432 WWW.OMNÉTICS.COM

В SCALE: 2:1

PART NO.	A90170-001	REV	ECO	DATE	APP
		В	104151	01-09-18	HV



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S	Z FL DEC+ .UI	CHK'D	DATE	(1 12) SOCIETIENTEE
	4 PL DEC± .0005	CHK D.		TWIST LOCK
2	ANGLES ± 1°	APP'D	DATE	CONNECTOR

OF OR	OMNETICS	CAGE CODE 61	873
	CONNECTOR CORPORATION	DWG NO. A90170-0	01
	7260 COMMERCE CIRCLE EAST MINNEAPOLIS, MN 55432	SHEET 4 OF 4	REV
	WWW.OMNETICS.COM	SCALE: 1:1	В