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DWG. NO. **JBXFC2C**

4

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**ELECTRICAL:**

EMI SHIELDING : SHIELDED FOR THE RANGE 55dB UP TO 100MHZ

INSULATION RESISTANCE : >500MΩ PER ANSI-EIA-364-D METHOD 21

MAX. CURRENT RATING : SEE INSULATOR DRAWING

CONNECTOR TESTING VOLTAGE : SEE INSULATOR DRAWING

CONNECTOR WORKING VOLTAGE : SEE INSULATOR DRAWING

**PHYSICAL:**

MAXIMUM WIRE SIZE USED : SEE INSULATOR DRAWING

CABLE DIAMETER WITH PLASTIC COLLET SET SUPPLIED: Ø3.5mm MIN. TO Ø9.7mm MAX.

**ENVIRONMENTAL:**

ENDURANCE: 1000 CYCLES AS PER MIL-STD 1344A, METHOD 2016.1

SHOCK: 50 g , DURATION 6 ms; AS PER MIL-STD 1344A, METHOD 2004.1

VIBRATIONS: 10 TO 2000Hz g = 15g, AS PER MIL-STD 1344A, METHOD 2005.1

PROTECTION INDEX: IP 40 AS PER CEI 529

ROHS COMPLIANT

SALT MIST : 48Hr PER SAE AS 1344 METHOD 1001.1 CEI 529

**OPERATING TEMPERATURE:**

WITH PLASTIC COLLETS: -55°C TO +125°C (-67°F TO +257°F)

WITH OPTIONAL METALLIC COLLETS: -55°C TO +200°C (-67°F TO +392°F) (ONLY ON REQUEST)

MASS (g)	VOLUME (mm <sup>3</sup> )
31.9	5161

**NOTES:**

1 ▷ RED DOT.

**MATERIAL:**

OUTER SHELL & BACK NUT : } BRASS  
 LATCHING SLEEVE & SPACER : }  
 RETAINING NUT & BACKSHELL : }

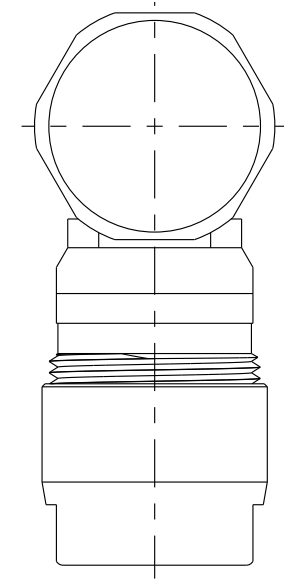
COLLET : POLYAMIDE

**FINISH:**

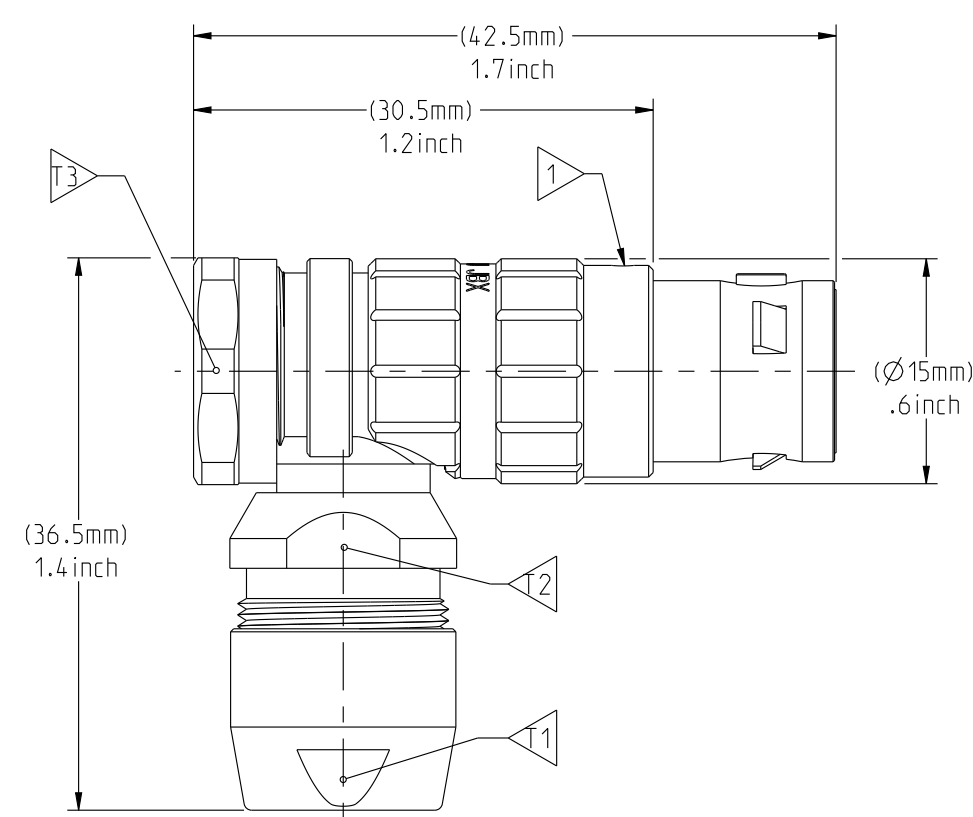
OUTER SHELL & BACKSHELL : CHROME  
 BACK NUT & RETAINING NUT:

OTHER BRASS PARTS : NICKEL

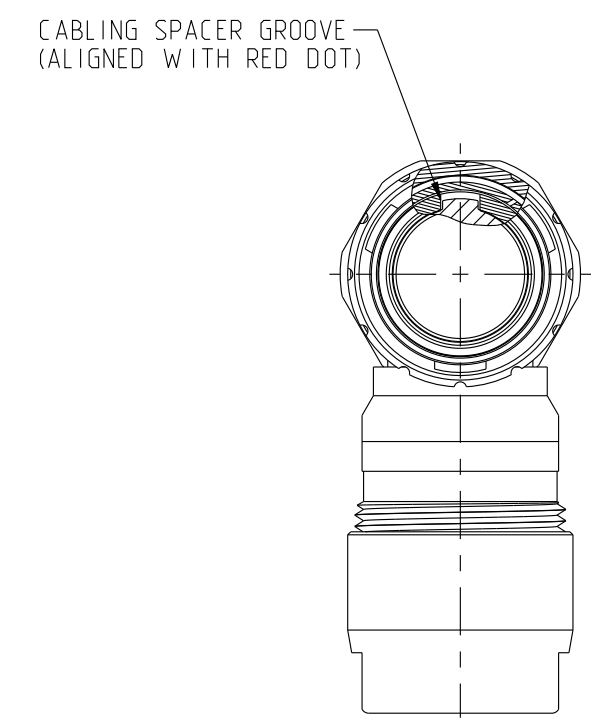
T ▷ TOOLS



WIRE SIDE VIEW

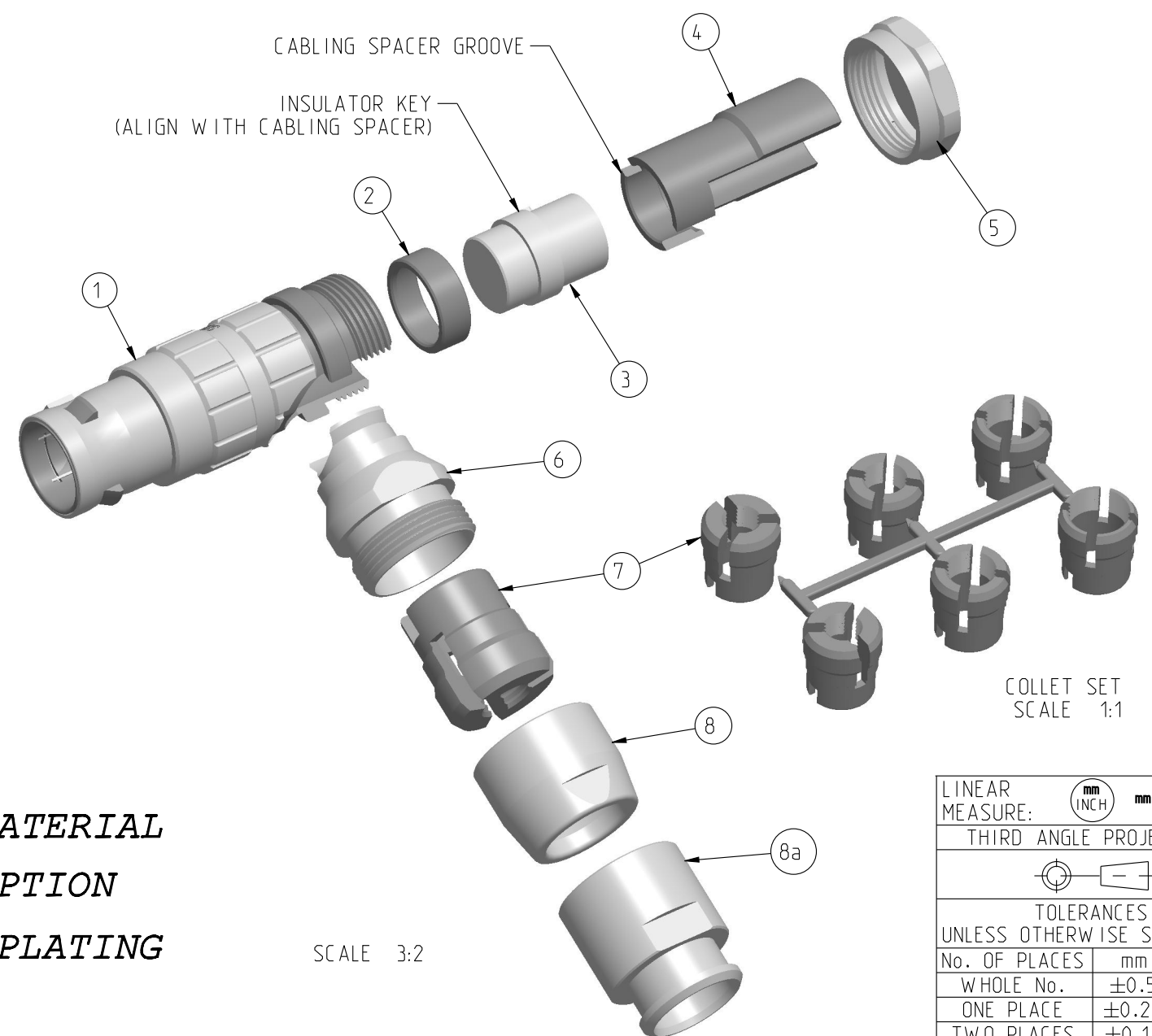


(ASSEMBLED VIEW FOR INFORMATION ONLY)



MATING SIDE VIEW

PART LIST	
ITEM NO.	DESCRIPTION
1	SLEEVE
2	RETAINING RING
3	INSULATOR
4	CABLING SPACER
5	RETAINING NUT
6	ELBOW BACKSHELL
7	Ø3.5-Ø9.7 CABLE COLLET (CHOOSE PER CABLE SIZE)
8	STANDARD BACK NUT
8a	BACK NUT FOR PROTECTIVE BOOT (OPTIONAL)



SCALE 3:2

COLLET SET SCALE 1:1

	TOOLS (JAW DIMENSION)	ADVISED TORQUE IN Nm
T1	13	1.5
T2	13	-
T3	15	0.5 TO 0.7

**CATALOG NUMBER DESCRIPTION**

**JBX FC 2 XXXXXX D S X**

**BASIC SERIES** \_\_\_\_\_

**SHELL TYPE** \_\_\_\_\_

**SHELL SIZE** \_\_\_\_\_

**KEYING** \_\_\_\_\_

**SEE INSULATOR DRAWING** \_\_\_\_\_

**OPTION** \_\_\_\_\_

**INSERT MATERIAL** \_\_\_\_\_

**COLLET OPTION** \_\_\_\_\_

**SURFACE PLATING** \_\_\_\_\_

A	RELEASED PER ECN 12258	SKV 06-10-15	EV 06-10-15
REV	DESCRIPTION	BY DATE	CHKD DATE

DRAWING TITLE: **JBX, SIZE 2, RIGHT ANGLE PLUG**

CAT NO. **JBXFC2**

CAGE NO: 09922 SIZE: C

**CUSTOMER**

**SOURIAU**

www.souriau.com

1 OF 1

APPROVAL

DRAWN: SKV	01-21-15
CHKD: EV	01-21-15
DSGN: EV	01-21-15
MFG: DH	01-21-15
QC: BB	01-21-15

DRAWING SCALE: 2:1

DRAWING NO. **JBXFC2C** REV **A**

LINEAR MEASURE:  $\frac{mm}{INCH}$   $\frac{mm}{INCH}$

THIRD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE SPECIFIED

No. OF PLACES	mm [INCH]
WHOLE No.	±0.5 [±.02]
ONE PLACE	±0.2 [±.008]
TWO PLACES	±0.1 [±.004]

ANGLES ±1°

4

3

2

1

PRO-E

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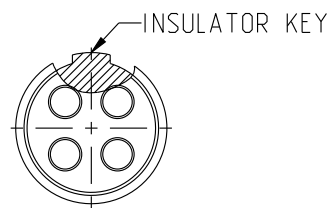
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2

1

**MALE INSULATOR, CRIMP CONTACT**

DWG. NO. JBX2INSMCC			
<b>CONTACT LAYOUT</b>	<b>02</b>	<b>03</b>	
FRONT SIDE VIEW			
REAR SIDE VIEW			
CONTACT			
ISO VIEW			
CONTACT			
INSULATOR			
ØC	2	1.6	
ØF	2.4	1.9	
MAX. AWG	12	14	
MAX. CURRENT RATING (A)	30	17	
CONTACT RESISTANCE (mΩ)	2.5	2.5	
NUMBER OF CAVITY	2	3	
MAX. CURRENT RATING	30	17	
TEST VOLTAGE (Vrms)	2100	1700	
WORKING VOLTAGE (Vdc/Vrms)	1000/700	830/560	

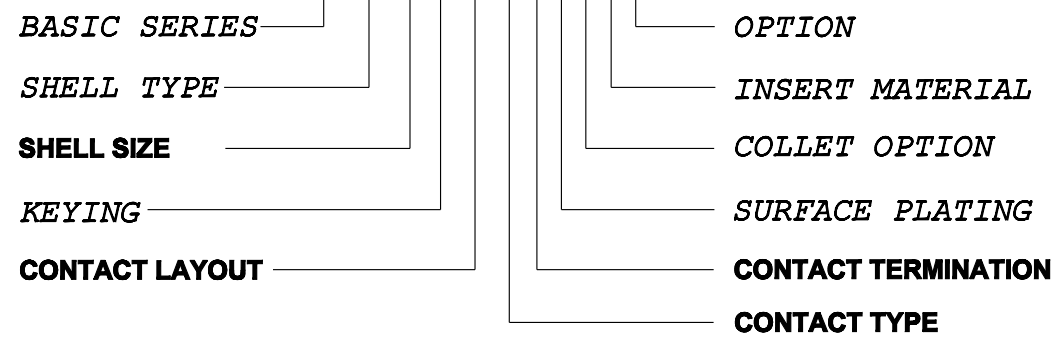


**CONTACT TYPE : M (MALE)**  
**CONTACT TERMINATION : C (CRIMP)**

**MATERIAL :**  
 CONTACT: BRASS  
 CLIP: COPPER ALLOY  
 INSULATOR: PEEK  
 FINISH: GOLD  
 CONTACTS: GOLD

**CATALOG NUMBER DESCRIPTION**

**JBXXX 2 XYYM C XXXX**



B	REVISED PER ECN 12286	RSK	EV
A	RELEASED PER ECN 12264	SKV	EV
REV	DESCRIPTION	BY	CHKD
		DATE	DATE

DRAWING TITLE  
**JBX, SIZE 2, MALE INSULATOR, CRIMP CONTACT**

CAT NO. **JBX2INSMC**

CAGE NO: 09922	SIZE: B	APPROVAL	DRAWN: SKV 02-02-15
<b>CUSTOMER</b>	<b>SOURIAU</b>	<b>WWW.SOURIAU.COM</b>	CHKD : EV 02-02-15
			DSGN : EV 02-02-15
			MFG : DH 02-02-15
			QC : BB 02-02-15
			DRAWING SCALE: NA
			DRAWING NO. REV
			JBX2INSMCC B
			1 OF 3

LINEAR MEASURE:	
THIRD ANGLE PROJECTION	
TOLERANCES UNLESS OTHERWISE SPECIFIED	
No. OF PLACES	mm [INCH]
ONE PLACE	±3 [±.1]
TWO PLACES	±0.5 [±.02]
THREE PLACES	±0.25 [±.010]
ANGLES ±1°	

INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.5M - 1994.

B

A

2

1

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DWG. NO. JBX2INSMCC		2				1	
		04	05	06	07	08	10
FRONT SIDE VIEW							
REAR SIDE VIEW							
CONTACT							
ISO VIEW							
CONTACT		1.3	1.3	1.3	1.3	0.9	0.9
		1.4	1.4	1.4	1.4	1.1	1.1
	MAX. AWG	18	18	18	18	20	20
	MAX. CURRENT RATING (A)	15	15	15	15	10	10
	CONTACT RESISTANCE (mΩ)	3	3	3	3	3.5	3.5
	NUMBER OF CAVITY	4	5	6	7	8	10
INSULATOR		15	14	12	11	10	8
	TEST VOLTAGE (Vrms)	2400	1900	1900	1500	1700	1700
	WORKING VOLTAGE (Vdc/Vrms)	1000/700	900/630	900/630	730/500	830/560	830/560

DRAWING TITLE  
**JBX, SIZE 2, MALE INSULATOR, CRIMP CONTACT**

CAT. NO. **JBX2INSMC**

CAGE NO: 09922    SIZE: B

**CUSTOMER**

INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.5M - 1994.

**SOURIAU**

[WWW.SOURIAU.COM](http://WWW.SOURIAU.COM)

DRAWN: SKV 02-02-15
CHKD : EV 02-02-15
DSGN : EV 02-02-15
MFG : DH 02-02-15
QC : BB 02-02-15
DRAWING SCALE: NA
DRAWING NO. REV
JBX2INSMCC B
2 OF 3

B

A

2

1

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2

1

DWG. NO.  
JBX2INSMCC

CONTACT LAYOUT	12	16	18	19	
FRONT SIDE VIEW					
REAR SIDE VIEW					
CONTACT					
ISO VIEW					
CONTACT	ØC	0.7	0.7	0.7	0.7
	ØF	0.85	0.85	0.85	0.85
	MAX. AWG	22	22	22	22
	MAX. CURRENT RATING (A)	7	7	7	7
	CONTACT RESISTANCE (mΩ)	5	5	5	5
INSULATOR	NUMBER OF CAVITY	12	16	18	19
	MAX. CURRENT RATING	7	6	5.5	5
	TEST VOLTAGE (Vrms)	1700	1500	1400	1400
	WORKING VOLTAGE (Vdc/Vrms)	830/560	730/500	660/460	660/460

B

A

DRAWING TITLE  
**JBX, SIZE 2, MALE INSULATOR, CRIMP CONTACT**

CAT. NO. **JBX2INSMC**

CAGE NO: 09922	SIZE: B	APPROVAL	DRAWN: SKV 02-02-15
<b>CUSTOMER</b>	<b>SOURIAU</b>		CHKD : EV 02-02-15
			DSGN : EV 02-02-15
			MFG : DH 02-02-15
			QC : BB 02-02-15
INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.5M - 1994.		DRAWING SCALE: NA	
<b>WWW.SOURIAU.COM</b>		DRAWING NO. REV	
		JBX2INSMCC B	
		3 OF 3	

LINEAR MEASURE:	
THIRD ANGLE PROJECTION	
TOLERANCES UNLESS OTHERWISE SPECIFIED	
No. OF PLACES	mm [INCH]
ONE PLACE	±3 [±.1]
TWO PLACES	±0.5 [±.02]
THREE PLACES	±0.25 [±.010]
ANGLES ±1°	

2

1

PRO-E

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[FGJ.1B.304.CLLD76](#) [FGJ.1B.306.CWLD72](#) [FGJ.3B.304.CYMD82Z](#) [FHG.1B.303.CY CZ](#) [PCS.01.250.DLLE24](#) [PHG.0K.305.CYMC40Z](#)  
[PHG.1K.308.CLLK85](#) [PHG.2K.310.CYMC60Z](#) [PHG.2K.310.CYMC85Z](#) [PKG.M0.6BL.LZ](#) [PLC.M1.0SL.LA](#) [GMA.10.290.DN](#)  
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