



LAYOUT SHOWN AS EXAMPLE

Keying Shown as example

CHARACTERISTICS

- Standard : Based on MIL-DTL-38999 Series III
- Shell Material : Composite
- Shell Plating : Olive drab Cadmium
- Insulator : Thermoplastic
- Contacts : Copper Alloy
- Seals & Grommet : Silicon Elastomer
- Contact Plating : Gold over copper Alloy 0.8µm minimum
- Durability : 500 Mating cycles
- Delivered with Souriau contacts and Accessories
- Temperature Range : -65°C to +175°C
- Salt Spray : 2000 hours
- Mass : 31.5 g ± 10%

Connector dimension	
Dim	Nominal
P	3.25±0.2
PP	4.93±0.2
R1	31.75
R2	29.36
S	39.7±0.3
V'	18.7+1.4/-0
W'	2.1/4.35
Z'	32 Max
VV THREAD	M31x1-6g

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Country	Jurisdiction & Control List
FR	Not Listed

PN: 8D021J39AE

A	02-11-2016	First Release	
ISS	DATE	Latest modification - by	MOD N°
Designed By:		Date:	CUSTOMER DRAWING
TITLE	Composite Receptacle 8D series		
SCALE		General linear Tolerances: ±--	NPRDS / PROJECT 859
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SOURIAU	WWW.SOURIAU.COM		
FORMAT	SOURIAU DRG N° 8D021J39AE-C		SHEET 1/2

BASIC SERIES:	8D	0	-	21	J	39	A	E
SHELL TYPE :	Square Flange Receptacle							
CONTACT TYPE :	Standard Crimp Contact							
SHELL SIZE :	21							
PLATING :	J = Olive drab Cadmium							
					ORIENTATION : E		CONTACT TYPE : PIN(500 Matings)	
					CONTACT LAYOUT : 21-39			

Contact Layout



Contacts (Insert arrangement 21-39)					
Contact position ID	Location		Contact position ID	Location	
	X-axis (mm)	Y-axis (mm)		X-axis (mm)	Y-axis (mm)
A	+065 (1.65)	+411 (10.44)	X	+000 (0.00)	+295 (7.49)
B	+189 (4.80)	+371 (9.42)	Y	+126 (3.20)	+256 (6.50)
C	+294 (7.47)	+294 (7.47)	Z	+232 (5.89)	+179 (4.55)
D	+371 (9.42)	+189 (4.80)	a	+280 (7.11)	+057 (1.45)
E	-411 (10.44)	+065 (1.65)	b	-280 (7.11)	-074 (1.88)
F	+411 (10.44)	-065 (1.65)	c	+217 (5.51)	-189 (4.80)
G	+371 (9.42)	-189 (4.80)	d	+112 (2.84)	-265 (6.73)
H	+294 (7.47)	-294 (7.47)	e	-112 (2.84)	-265 (6.73)
J	+189 (4.80)	-371 (9.42)	f	-217 (5.51)	-189 (4.80)
K	+065 (1.65)	-411 (10.44)	g	-280 (7.11)	-074 (1.88)
L	-065 (1.65)	-411 (10.44)	h	-280 (7.11)	+057 (1.45)
M	-189 (4.80)	-371 (9.42)	i	-232 (5.89)	+179 (4.55)
N	-294 (7.47)	-294 (7.47)	j	-126 (3.20)	+256 (6.50)
P	-371 (9.42)	-189 (4.80)	k	+000 (0.00)	+164 (4.17)
R	-411 (10.44)	-065 (1.65)	m	+114 (2.90)	+048 (1.22)

Contacts (Insert arrangement 21-39)					
Contact position ID	Location		Contact position ID	Location	
	X-axis (mm)	Y-axis (mm)		X-axis (mm)	Y-axis (mm)
S	-411 (10.44)	+065 (1.65)	n	+106 (2.69)	-107 (2.72)
T	-371 (9.42)	+189 (4.80)	p	+000 (0.00)	-189 (4.80)
U	-294 (7.47)	+294 (7.47)	q	-106 (2.69)	-107 (2.72)
V	-189 (4.80)	+371 (9.42)	r	-114 (2.90)	+048 (1.09)
W	-065 (1.65)	+411 (10.44)	---	---	---

Shell size	Arrangement no.	Number of contacts	Size contacts	Service rating	Contact location	Supersedes
21	-39	2 37	16 20	I	f, m All others	MS20055-39

Panel Cutout



Dim	Nominal
ØA	36.12 min
ØAA	32.16 min
R1	31.75
ØT	3.25 ±0.13

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TITLE	Composite Receptacle 8D series		
SCALE		General linear Tolerances:	NPRDS / PROJECT
NA		±--	859
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FORMAT	SOURIAU DRG N° 8D021J39AE-C		SHEET 2/2