



MIL-DTL-26482 SERIES I
CONNECTORS

ATP DEFENSE

NCAGE CODE: TD589

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ATP MIL-DTL-26482 Series I

MATES WITH ITT CANNON AND SOURIAU MIL-DTL-26482

- Intermateable, intermountable and interchangeable with all MIL-DTL-26482 connectors.

APPLICATIONS

- Sensors
- Motion control
- Off-road vehicles
- Earth-moving equipment
- Ships
- Mobile equipment
- Engines
- Power generators
- Industrial machinery
- Telecommunications
- Traffic control

FEATURES

RUGGED SHELL

Aluminum alloy shell and hardware create a rugged connector with minimal weight. These connectors have been used extensively in commercial, military, and aerospace environments. Standard shells accept all MIL-DTL-26482 accessories.

ENVIRONMENTALLY-SEALED

Complete moisture sealing is achieved by combining four seals: shell, peripheral, interfacial, and wire. Wire seal is accomplished by multiple ripple design, exceeding the wire sealing requirements of MIL-DTL-26482.

RESISTANT TO MILITARY ENVIRONMENTS

These connectors will operate in **temperatures from -67°F to +257°F (-55°C to +125°C) under the harshest possible conditions.**

WIDE RANGE OF WIRE GAUGES AND CURRENT-CARRYING CAPACITY

Up to 23 amps with wire gauges from 24 to 12 AWG wire.

RESILIENT INSULATOR & GROMMET

A resilient neoprene insulator and integrated rear wire sealing grommet guarantees a liquid-tight assembly. Crimp contacts that can be inserted from the rear of the connector are available. Solder contacts are permanently bonded into the insulator.



AGENCY APPROVALS

- MIL-DTL-26482

TECHNICAL SPECIFICATIONS

MATERIALS & FINISHES

Shell	Aluminum alloy
Plating	Anodic coating (alumilite), olive drab chromate over cadmium over nickel, electroless nickel, olive drab zinc, non-conductive black zinc, conductive blackzinc and gray zinc nickel
Contacts	Copper alloy
Platings	Gold-plated, 50 microinches minimum per MIL-G-45204 type II.
Insulator	Resilient neoprene.

ELECTRICAL DATA

Operating Voltage & Test Voltage

SERVICE RATING*	TEST ALTITUDE	MAXIMUM OPERATING VOLTAGE		TEST VOLTAGE	
		DC	AC (RMS)	DC	AC (RMS)
1	Sea Level	850	600	2,100	1,500
2		1,400	1,000	3,200	2,300
1	70,000 feet	400	300	535	375
2		600	450	700	500

*Each insulator layout has a specific "service rating." The service ratings for each layout are listed on



Current Rating			
CONTACT SIZE	RATED CURRENT AMPS (MAX.)	TEST CURRENT AMPS (WORKING)	POTENTIAL DROP (MILLIVOLTS) INITIAL
20	13	7.5	< 55
16	22	13	< 50
12	41	23	< 42

Wire Range Sizes	24 to 12 AWG (and coax)
Contact Resistance	When tested to MIL-STD-1344 Method 3004, will not exceed voltage drops listed in table. Consult MIL-DTL-26482, 3.6.4 for details.
Insulation Resistance	5,000 megohms minimum at 77°F (25°C)

MECHANICAL

Operating Temperature	-67°F to +257°F (-55°C to +125°C)
Sealing	48 hours in 6 feet of water per MIL-DTL-26482 4.6.14. Meets 10- and 20-day 50-95% humidity testing per MIL-STD-1344 Method 1002.2 per MIL-DTL-26482.
Wire Sealing Range	Per MIL-DTL-26482 1.4

CONTACT SIZE	AWG WIRE SIZE	INSULATION OUTSIDE DIAMETER LIMITS: INCHES (MM)	
		MIN.	MAX.
20	24, 22, and 20	.047 (1.19)	.083 (2.11)
16	20, 18, and 16	.066 (1.68)	.109 (2.77)
12	12 and 14	.097 (2.46)	.142 (3.61)



TECHNICAL SPECIFICATIONS

MECHANICAL

Insulation Strip Lengths

CONTACT SIZE	WIRE SIZE (AWG)	STRIP LENGTH INCHES (MM)
20	20-24	.275 (7.0)
16	16-20	.250 (6.4)
12	12-14	.250 (6.4)

Mating Life	500 cycles minimum per MIL-DTL-26482 3.6.17
Salt Spray	Unmated connectors and protective covers meet 48-hour exposure to MIL-STD-1344 Method 1001 per MIL-DTL-26482. (Cadmium plating) Olive drab/black zinc, electroless nickel meets 48-hour salt spray test, gray zinc nickel meets 500-hour salt spray test.
Heat	+221°F (+105°C) for 1,000 hours per MIL-DTL-26482
Chemical Resistance	20-hour full-immersion unmated in hydraulic fluid and lubricating oil per MIL-DTL-26482.
Vibration	10 to 2,000Hz (15g's) 10 microseconds maximum discontinuity. To MIL-STD-1344 Method 2005 per MIL-DTL-26482.
Shock	50g's, 11ms duration, three major axes. 10 microseconds maximum discontinuity. To MIL-STD-1344 Method 2004 per MIL-DTL-26482.
Contact Type	Solder, crimp, printed circuit, thermocouple, coax
Contact Insertion (Crimp)	Insertion from the rear of connector with simple hand-tool. Front release with appropriate extraction tool.
Contact Retention	To MIL-STD-1344 Method 2007 per MIL-DTL-26482.

Polarization	Five keyway, three-point bayonet with optional rotational polarization.
Approvals	• MIL-DTL-26482H

CONTACT SIZE	AXIAL LOAD MIN. LBS (NEWTONS)
20	15 (66.7)
12 and 16	25 (111.2)

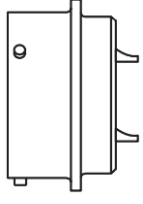
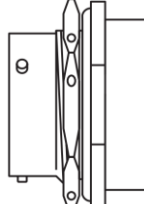
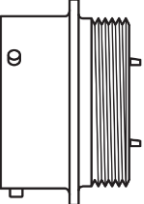
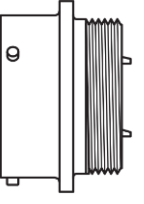
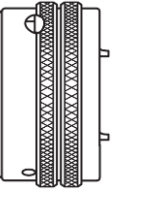







CREATE YOUR **SOLDER** PART NUMBER USING THESE SIX STEPS

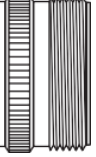
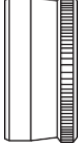
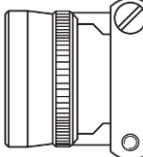
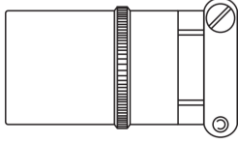
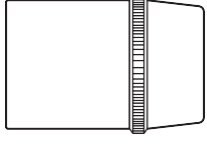

1	2	3	4	5	6
MS3116°	F°	16-26	P	W	-SR
SHELL STYLE	ENDBELL	LAYOUT	CONTACT	ROTATION	MODIFIER

(Military part number example)

STEP 1: SELECT SHELL STYLE, PLUG OR RECEPTACLE

RECEPTACLES				PLUGS	
					
					
MS3112E°	MS3114°	MS3110°	MS3111°	MS3116°	
<i>Box Mount Receptacle</i>	<i>Jam Nut Receptacle</i>	<i>(less rear accessories) Wall Mount Receptacle</i>	<i>(less rear accessories) Cable Mount Receptacle</i>	<i>(less rear accessories)</i>	

STEP 2: SELECT ENDBELL

					
A*	E††	A-(SR)*	J††	W*	P††
General-Duty Threaded	Environmental, No Clamp	Non-Environmental with Clamp E-(SR)* F-military°	Environmental with Clamp and Cable Jacket Gland Seal	Environmental without Clamp (Not available for	Environmental Potting for epoxy potting compound.

Right Angle (for PT08P)

PART NUMBER KEY:

Commercial=(*) Commercial & Military=(††) Military Only=(°)

Environmental with Clamp



STEP 3: SELECT LAYOUT

LAYOUT	SERVICE RATING	CONTACTS					ROTATIONS			
		TOTAL	20	16	12	COAX	W	X	Y	Z
6-1*	I	1	1				-	-	-	-
8-2††	I	2	2				58	122	-	-
8-3††	I	3	3				60	210	-	-
8-4††	I	4	4				45	97#	184#	-
8-33*	I	3	3				90	-	-	-
8-98*	I	3	3				-	-	-	-
10-2*	I	2		2			45	90	315	-
10-5*	I	5	5				45	151	180	270
10-6††	I	6	6				90	-	-	-
10-98††	I	6	6				90	180	240	270
12-3††	II	3		3			-	-	180	-
12-4*	I	4		4			38	-	-	-
12-8††	I	8	8				90	112	203	292
12-10††	I	10	10				60	155	270	295
12-14 A*	I	14	14				-	-	-	-
14-4 AS*	I	4			4		45	-	-	-
14-AA*U	I	4			4		45	-	-	-
14-5††	II	5		5			40	92	184	273
14-12††	I	12	8	4			43	90	-	-
14-15††	I	15	14	1			17	110	155	234
14-18††	I	18	18				15	90	180	270
14-19††	I	19	19				30	165	315	-
14-91*	HV 5k	3	3				-	60	-	-
16-8††	II	8		8			54	152	180	331
16-23††	I	23	22	1			158	270	-	-
16-26††	I	26	26				60	-	275	338
16-70	Coax	15	14			1	-	-	-	-
16-99††	I	23	21	2			66	156	223	340
18-5*	II	5			5		55	97	263	315
18-11††	II	11		11			62	119	241	340
18-30††	I	30	29	1			180	193	285	350
18-32††	I	32	32				85	138	222	265
20-16††	II	16		16			238	318	333	347
20-24††	I	24	24				70	145	215	290
20-25*	I	25	25				72	144	216	288
20-27††	I	27	27				72	144	216	288
20-39††	I	39	37	2			63	144	252	333
20-41††	I	41	41				45	126	225	-
20-90*	HV	7	7				45	135	225	315
22-21††	II	21		21			16	135	175	349
22-32††	I	32	32				72	145	215	288
22-34*	I	34	34				62	142	218	298
22-36*	I	36	36				72	144	216	288
22-41††	I	41	27	14			39	135	264	-
22-55††	I	55	55				30	142	226	314
24-31 A*	I	31		31			90	225	255	-
24-61††	I	61	61				90	180	270	324

PART NUMBER KEY:

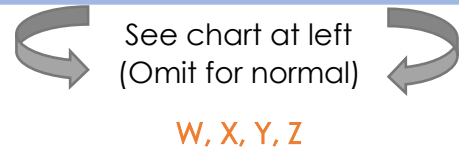
SE=(*) CE=(††) Military=(°)

= Commercial Rotation Only (Not Military)

STEP 4: SELECT CONTACT



STEP 5: SELECT ROTATION



STEP 6: SELECT MODIFIER



- SR* = F-Style Strain Relief (not military)
- 002* = Black Anodized
- 005* = Anodic Coating (Alumilite)
- 014* = Olive Drab Chromate over Cadmium over Nickel (500-hour salt spray)
- 023* = Electroless Nickel (RoHS)
- 024* = Olive Drab Zinc Alloy
- 025* = Black Alloy (RoHS)
- 027* = Conductive Black Alloy (RoHS)
- 072* = Gray Zinc Nickel (RoHS)
- 424* = Electroless Nickel and Strain Relief (SR & 023) (RoHS)
- 466* = Olive Drab Zinc Alloy with Strain Relief (SR & 024)
- 470* = Black Alloy with Strain Relief (SR & 025) (RoHS)
- 476* = Conductive Black Alloy with Strain Relief (SR & 027) (RoHS)
- SCC* = Self-Closing Cap Box Mount (02) Shell sizes 8, 10, 12 & 18 only
- LC = Less Contacts



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NCAGE CODE
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LAYOUTS BY NUMBER OF CONTACTS

CONTACT LEGEND ○ = 20 ● = 16 ◐ = HV ◑ = 12 ◉ = coax

SERIES LEGEND

▲ = PTS-Solder
 ◆ = PT-SE Crimp
 U = 14-44
 △ = Solder: Military & PT
 ◊ = Crimp: Military & PT-SE
 ■ = PT-CE
 S = Socket only

CONTACTS	1		2			3			4		
SHELL SIZE/LAYOUT	6-1	8-2	10-2	8-3	8-33	8-98	12-3	14-91	8-4	12-4	14-4S
# OF CONTACTS	1-#20	2-#20	2-#16	3-#20	3-#20	3-#20	3-#16	3-HV	4-#20	4-#16	4-#12
SERIES	▲	■	▲	■	▲	▲	■◆	▲	■	▲	▲
SERVICE RATING	I	I	I	I	I	I	II	HV5k	I	I	I

CONTACTS	4			5				6	
SHELL SIZE/LAYOUT	14-AAU	18-76	10-5	14-5	14-22	18-5	10-6	10-98	18-91
# OF CONTACTS	4-#12	4(coax)	5-#20	5-#16	4-#12; 1-#20	5-#12	6-#20	6-#20	6-HV
SERIES	▲	■	▲	■◆	◆	■◆▲	■◆	■	■◆
SERVICE RATING	I	(coax)	I	II	I	II	I	I	HV5k

CONTACTS	7				8	
SHELL SIZE/LAYOUT	20-90	22-7	22-78	22-96	12-8	16-8
# OF CONTACTS	7-HV	7(coax)	7(coax)	7-#12	8-#20	8-#16
SERIES	▲	◆	◆	◆	■◆	■◆
SERVICE RATING	I	(coax)	(coax)	I	I	I

CONTACTS	8		9		10	11	12
SHELL SIZE/LAYOUT	18-80	22-71	12-10	18-11	14-12		
# OF CONTACTS	6-#20; 2(coax)	2-#20; 7(coax)	10-#20	11-#16	4-#16; 8-#20		
SERIES	■	■	■◆	■◆	■◆		
SERVICE RATING	(coax)	(coax)	I	II	I		

26482 - ATP MIL-DTL-26482 SERIES I



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CONTACTS	14	15	16	18			
SHELL SIZE/LAYOUT	12-14	16-76	20-70	14-15	16-70	20-16	14-18
# OF CONTACTS	14-#20	5-#12; 8-#20; 1(coax)	10-#20; 4(coax)	1-#16; 14-#20	1-#12(coax) 14-#20	16-#16	18-#20
SERIES	▲	◆	■	■◆	■▲	■◆	■◆
SERVICE RATING	I	Size 12 (coax) User Defined	I	II	I	not rated	I

CONTACTS	19	21	23	24	25	
SHELL SIZE/LAYOUT	14-90	22-21	16-23	16-99	20-24	20-25
# OF CONTACTS	19-#20	21-#16	1-#16; 22-#20	2-#16; 21-#20	24-#20	25-#20
SERIES	■◆	■◆△	■◆△	◆△	△	▲
SERVICE RATING	I	II	I	I	I	I

CONTACTS	25	26	27	30	31
SHELL SIZE/LAYOUT	22-25	16-26	20-27	18-30	24-31
# OF CONTACTS	6-#20; 2(coax)	2-#20; 7(coax)	10-#20	11-#16	4-#16; 8-#20
SERIES	◆	■◆△	■◆△	■◆△	■▲
SERVICE RATING	I	I	I	I	I

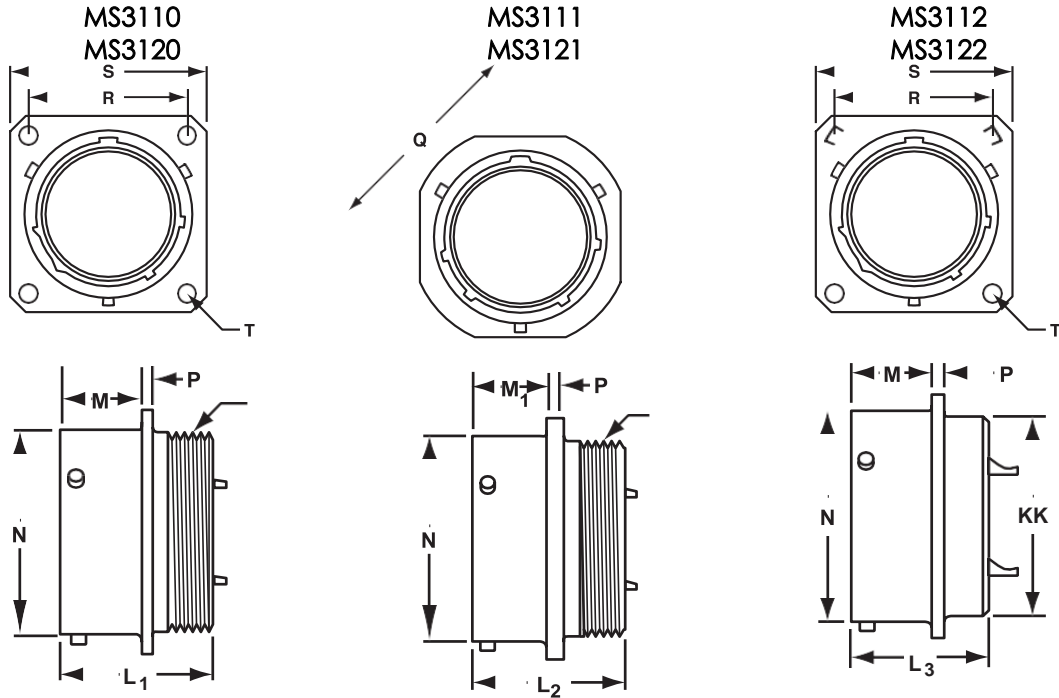
CONTACTS	32	34	36	38	39	
SHELL SIZE/LAYOUT	18-32	22-32	22-34	22-36	24-38	20-39
# OF CONTACTS	32-#20	32-#20	34-#20	36-#20	38-#16	2-#16 37-#20
SERIES	■◆	■	■▲	■▲	◆	■◆
SERVICE RATING	I	I	I	I	I	I

CONTACTS	41	51	55	61	
SHELL SIZE/LAYOUT	20-41	22-41	24-51	22-55	24-61
# OF CONTACTS	41-#20	14-#16; 27-#20	4-#12(coax); 47-#20	55-#20	61-#20
SERIES	■◆△	■◆△	◆	■◆△	■◆△
SERVICE RATING	I	I	I	I	I



DIMENSIONS

RECEPTACLE STYLES

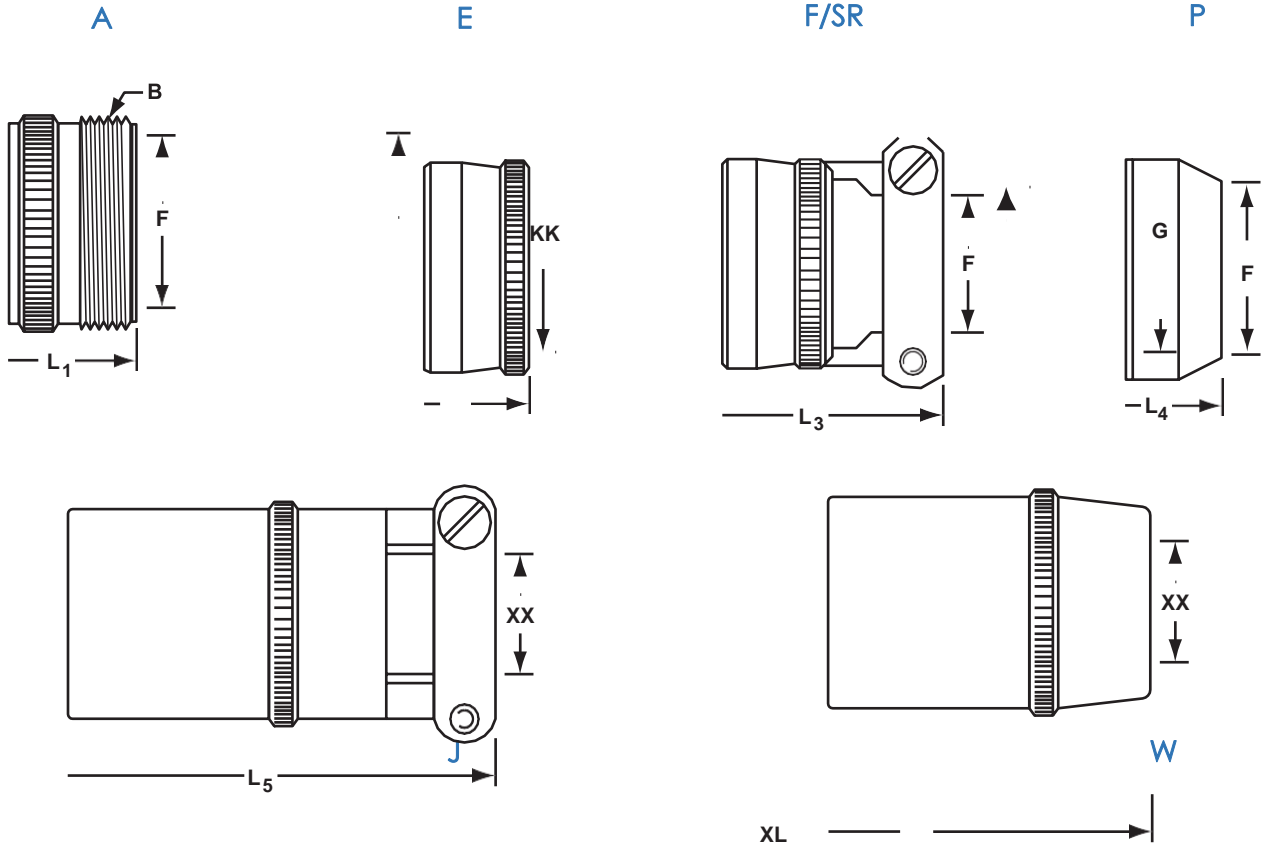


SHELL SIZE	M +0.010 -0.000	N +0.001 -0.005	MS31_0 MS31_2 P	MS311P	M1 MAX.	Q	R	S	T	L1 MAX.	L3 MAX.	KK DIA. MAX.	L2 MAX.	B THREAD CLASS 2A
6	0.431 (10.9)	0.348 (8.8)	0.062 (1.6)	0.093 (2.4)	0.400 (10.1)	0.812 (20.6)	0.469 (11.9)	0.688 (17.5)	0.120 (3.0)	0.906 (23.0)	0.825 (21.0)	0.323 (8.2)	0.906 (23.0)	.3125-32 NEF
8	0.431 (10.9)	0.473 (12.0)	0.062 (1.6)	0.093 (2.4)	0.400 (10.1)	0.938 (23.8)	0.594 (15.1)	0.812 (20.6)	0.120 (3.0)	0.906 (23.0)	0.825 (21.0)	0.449 (11.4)	0.906 (23.0)	.4375-28 UNEf
10	0.431 (10.9)	0.590 (15.0)	0.062 (1.6)	0.093 (2.4)	0.400 (10.1)	1.062 (27.0)	0.719 (18.3)	0.938 (23.8)	0.120 (3.0)	0.906 (23.0)	0.825 (21.0)	0.573 (14.6)	0.906 (23.0)	.5625-24 NEF
12	0.431 (10.9)	0.750 (19.1)	0.062 (1.6)	0.093 (2.4)	0.400 (10.1)	1.156 (29.4)	0.812 (20.6)	1.031 (26.2)	0.120 (3.0)	0.906 (23.0)	0.825 (21.0)	0.699 (17.8)	0.906 (23.0)	.6875-24 NEF
14	0.431 (10.9)	0.875 (22.2)	0.062 (1.6)	0.093 (2.4)	0.400 (10.1)	1.250 (31.8)	0.906 (23.0)	1.125 (28.6)	0.120 (3.0)	0.906 (23.0)	0.825 (21.0)	0.823 (20.9)	0.906 (23.0)	.8125-20 UNEf
16	0.431 (10.9)	1.000 (25.4)	0.062 (1.6)	0.093 (2.4)	0.400 (10.1)	1.344 (34.1)	0.969 (24.6)	1.219 (31.0)	0.120 (3.0)	0.906 (23.0)	0.825 (21.0)	0.949 (24.1)	0.906 (23.0)	.9375-20 UNEf
18	0.431 (10.9)	1.125 (28.6)	0.062 (1.6)	0.093 (2.4)	0.400 (10.1)	1.438 (36.5)	1.062 (27.0)	1.312 (33.3)	0.120 (3.0)	0.906 (23.0)	0.825 (21.0)	1.073 (27.3)	0.906 (23.0)	1.0625-18 NEF
20	0.556 (14.1)	1.250 (31.8)	0.094 (2.4)	0.115 (2.9)	0.535 (13.6)	1.562 (39.7)	1.156 (29.4)	1.438 (36.5)	0.120 (3.0)	1.125 (28.6)	1.076 (27.3)	1.199 (30.5)	1.125 (28.6)	1.1875-18 NEF
22	0.556 (14.1)	1.375 (34.9)	0.094 (2.4)	0.115 (2.9)	0.535 (13.6)	1.688 (42.9)	1.250 (31.8)	1.562 (39.6)	0.120 (3.0)	1.125 (28.6)	1.076 (27.3)	1.323 (33.6)	1.125 (28.6)	1.3125-18 NEF
24	0.589 (14.9)	1.500 (38.1)	0.094 (2.4)	0.115 (2.9)	0.568 (14.4)	1.812 (46.0)	1.375 (34.9)	1.688 (42.9)	0.147 (3.7)	1.188 (30.2)	1.109 (28.2)	1.449 (36.8)	1.188 (30.2)	1.4375-18 NEF



DIMENSIONS

ENDBELL STYLES



A ENDBELL				E ENDBELL		F/SR ENDBELL			P ENDBELL		W	J	W/J ENDBELL	
SHELL SIZE	F MAX.	L1	B THREAD CLASS2A	L2	KK MAX.	F	G	L3 MAX.	F	L4 MAX.	XL	L5 MAX.	XX MIN.	XX MAX.
6	0.175 (4.4)	1.553 (39.4)	.3750-32 NEF	1.266 (32.2)	0.440 (11.2)	-	-	-	0.192 (4.9)	1.438 (36.5)	-	-	-	-
8	0.297 (7.5)	1.553 (39.4)	.5000-28 UNEF	1.266 (32.2)	0.560 (14.2)	0.240 (6.1)	0.125 (3.2)	1.922 (48.8)	0.317 (8.1)	1.438 (36.5)	1.705 (43.3)	2.271 (57.7)	0.168 (4.3)	0.230 (5.8)
10	0.421 (10.7)	1.553 (39.4)	.6250-24 NEF	1.266 (32.2)	0.685 (17.3)	0.302 (7.7)	0.188 (4.8)	1.922 (48.8)	0.434 (11.0)	1.438 (36.5)	1.705 (43.3)	2.271 (57.7)	0.205 (5.2)	0.312 (7.9)
12	0.546 (13.9)	1.553 (39.4)	.7500-20 UNEF	1.266 (32.2)	0.813 (20.7)	0.428 (10.9)	0.312 (7.9)	1.922 (48.8)	0.548 (13.9)	1.438 (36.5)	1.848 (46.9)	2.411 (61.2)	0.338 (8.6)	0.442 (11.2)
14	0.663 (16.8)	1.553 (39.4)	.8750-20 UNEF	1.266 (32.2)	0.930 (23.6)	0.552 (14.0)	0.375 (9.5)	1.922 (48.8)	0.673 (17.1)	1.438 (36.5)	2.040 (51.8)	2.599 (66.0)	0.416 (10.6)	0.539 (13.7)
16	0.787 (20.0)	1.553 (39.4)	1.0000-20 UNEF	1.266 (32.2)	1.057 (26.8)	0.615 (15.6)	0.500 (12.7)	2.047 (52.0)	0.798 (20.3)	1.438 (36.5)	2.256 (57.3)	2.943 (74.8)	0.550 (14.0)	0.616 (15.6)
18	0.879 (22.3)	1.553 (39.4)	1.1875-18 NEF	1.266 (32.2)	1.175 (29.8)	0.740 (18.8)	0.625 (15.9)	2.078 (52.8)	0.899 (22.8)	1.438 (36.5)	2.486 (63.1)	3.172 (80.6)	0.600 (15.2)	0.672 (17.1)
20	1.041 (26.4)	1.703 (43.3)	1.1875-18 NEF	1.516 (38.5)	1.301 (33.0)	0.740 (18.8)	0.625 (15.9)	2.344 (59.5)	1.024 (26.0)	1.656 (42.1)	2.922 (74.2)	3.610 (91.7)	0.635 (16.1)	0.747 (19.0)
22	1.135 (28.8)	1.703 (43.3)	1.4375-18 NEF	1.516 (38.5)	1.430 (36.3)	0.928 (23.6)	0.750 (19.1)	2.344 (59.5)	1.149 (29.2)	1.656 (42.1)	3.086 (78.4)	3.766 (95.7)	0.670 (17.0)	0.846 (21.5)
24	1.259 (32.0)	1.765 (44.8)	1.4375-18 NEF	1.578 (40.1)	1.555 (39.5)	0.990 (25.1)	0.800 (20.3)	2.406 (61.1)	1.274 (32.4)	1.717 (43.6)	3.310 (84.1)	3.985 (101.2)	0.740 (18.8)	0.894 (22.7)



Erenler Mah. 1266 Sk.
73. Cadde No: 20
Erenler / SAKARYA / TURKEY

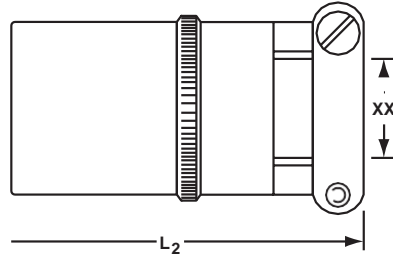
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NCAGE CODE
TD589

DIMENSIONS

STRAIGHT PLUGS



MS3116J



MS3116P
MS3126P

SHELL SIZE	MS3116P MS3126P		MS3116J		
	F DIA.	L1 MAX.	L2 MAX	XX MIN.	XX MAX.
6	0.192 (4.9)	1.526 (38.8)	- -	- -	- -
8	0.317 (8.1)	1.526 (38.8)	2.271 (57.7)	0.168 (4.3)	0.230 (5.8)
10	0.434 (11.0)	1.526 (38.8)	2.271 (57.7)	0.205 (5.2)	0.312 (7.9)
12	0.548 (13.9)	1.526 (38.8)	2.411 (61.2)	0.338 (8.6)	0.442 (11.2)
14	0.673 (17.1)	1.526 (38.8)	2.599 (66.0)	0.416 (10.6)	0.539 (13.7)
16	0.798 (20.3)	1.526 (38.8)	2.943 (74.8)	0.550 (14.0)	0.616 (15.6)
18	0.899 (22.8)	1.526 (38.8)	3.172 (80.6)	0.600 (15.2)	0.672 (17.1)
20	1.024 (26.0)	1.546 (39.3)	3.610 (91.7)	0.635 (16.1)	0.747 (19.0)
22	1.149 (29.2)	1.546 (39.3)	3.766 (95.7)	0.670 (17.0)	0.846 (21.5)
24	1.274 (32.4)	1.656 (42.1)	3.985 (101.2)	0.740 (18.8)	0.894 (22.7)

