



TURBO INDIA

INTERCONNECT SOLUTIONS LLP

**QUALITY
YOU CAN
TRUST**



CIRCULAR BACKSHELLS



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WHO WE ARE

Turbo India Interconnect Solutions (TICS) – subsidiary of Turbo India, is an AS9100 certified company, specialized in manufacture and supply of Connectors, Backshells, Protective Covers, Electrical Contacts and Components for Military, Aerospace and Industrial applications, against standard and custom requirements.

Headquartered in Bangalore, India, the 4000sq.m. facility is equipped with adequate infrastructure for the design, manufacture, assembly, testing and inspection of interconnect products.

The long-standing manufacturing expertise of the Turbo group, spanning over two decades since 1996, supporting the Military and Aerospace industry, equips TICS to work in collaboration with its customers to offer a complete solution.



VISION

To be a trusted and reliable hub for on-time, best in-class quality solutions for the interconnect requirements of Military, Aerospace, Industrial, Railways, Marine, Oil & Gas, and Medical sectors.



MISSION

The TICS family will continuously strive towards delighting the customers with on-time quality solutions, by utilizing world class facilities, following industry best practices, adopting a never-ending exercise of continuous improvement and employee engagement.



CAPABILITIES



SALES – With sales and distribution networks in India, Europe & the USA, we are ever closer to our customers. Our sales team is capable of understanding your needs and expectations and is focused in delivering the right solution and the best customer experience.

ENGINEERING – Our dedicated engineering team, equipped and aided with adequate product knowledge and software technologies are capable of providing standard or bespoke interconnect solutions, by working in partnership with you for specific designs to best suit your needs.

PRODUCTION – Our fleet of high-end CNC machines, aided by decades of experience are capable of manufacturing complex geometries. With machining, surface plating and assembly facilities under one roof, we assuring highest quality in quick turn-around time.

COST AND LEAD TIME – Through constantly reviewing our manufacturing process and implementing continual improvement practices, we always aim to pass on the benefits of cost and lead time to our customers.

SERVING AREAS

AEROSPACE



MARINE

LAND SYSTEM



MILITARY

SPACE



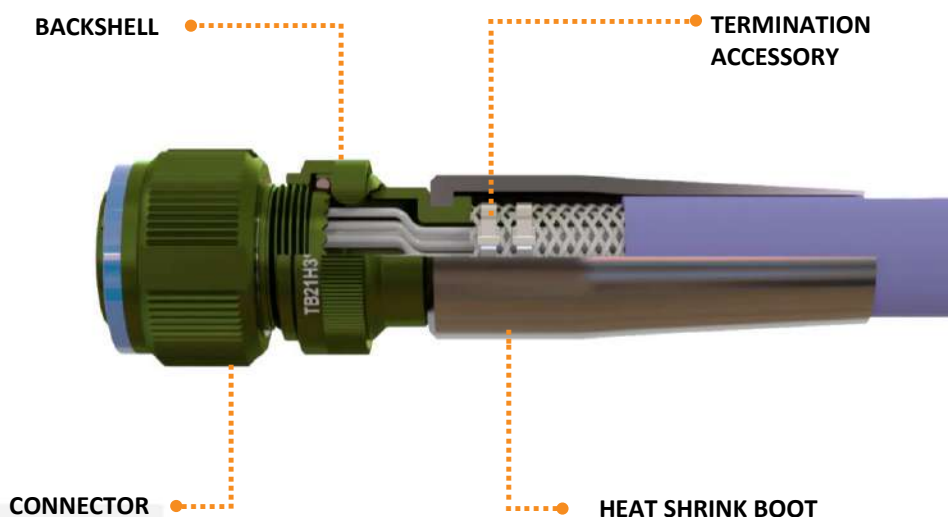
COMMERCIAL

BACKSHELLS DESIGN

Connector backshells are need based accessories attached to the rear side of connector. Apart from the primary function of protecting the cable-contact interface from external interferences, backshells may also be designed to serve additional requirements like strain relief, environmental sealing and EMI/RFI shielding between the connected cable and the connector.

Connector backshells come in various shapes and sizes – the front end essentially designed to suite and attach to the rear side of the particular connector they are intended to serve, and the rear end designed to serve the intended backshell function. The attaching mechanism on the connector end for circular backshells will be by thread coupling.

Depending on the intended function, the backshells for a particular connector vary with respect to their configuration like, an O-ring provided for sealing between connector and backshell coupler for environmental sealing, clamps to secure cable/ wire bunch for strain relief, holding area for securing cable/ external braid for EMI/RFI shielding, provision for accommodating a heat shrink boot etc.



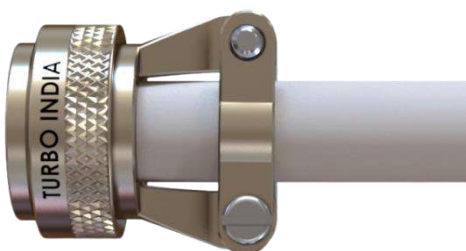
SELECTION PROCEDURE

The backshells on offer from Turbo India Interconnect Solutions (TI) are identified by specific characters in its ordering part number to suite multiple requirements for the customer in terms of Fit, Form & Function. A general selection procedure given below may be used as a reference to identify your ordering part number on your own, even when our team is always available to handle this activity for you.

1. IDENTIFY THE PRODUCT SERIES

At TI, the connector backshells are identified by the backshell type with respect to different cable terminations intended for functions like EMI/ RFI shielding, strain relief etc. or a combination, defined by '**PRODUCT SERIES**' in the ordering information.

TI offers its '**shielding backshells**' with different provisions for accommodating the shielding braid either integrated on the connecting cable or independent. These backshells are intended and designed to effectively extend the protection over the signal transfer interface of the connector, against external signal interferences, offered by the attaching braided cable or provide for the same by attachment of an external braid. Provision is available for attaching a shrink boot as well to protect the braid – backshell connection against ingress. The TB160 series even offers a strain relief option as well. Different termination options for the braid on to the backshell is illustrated in the '**BRAID TERMINATIONS**' page (16).



TI '**strain relief backshells**' are designed to hold the strain on the cable due to external forces, from reaching the contact – cable interface by limiting the pull on the cable, by means of cable clamps and a suiting profile on the rear of the backshells. The resistance levels to the straining forces for different shell sizes and cable sizes are based on the SAE-AS85049 standard.

TI '**shrink boot adaptor backshells**' are offered to provide a sealing option between the attaching cable and the backshell. The backshell adaptors are not meant for EMI/RFI shielding functions. The shrink boot selection is kept open for the customer and not supplied along with the backshell.



Apart from the above, TI also offers ‘backnut adaptors’ which offers only the basic function of protecting the cable connector interface and does not provide shielding, shrink boot provision or strain relief. Never the less, the user may choose to add a boot over the backshell coupling nut for any sealing. The TI product series for the backshell can be identified by the reference information given in ‘**PRODUCT FINDER**’ page (11)

2. IDENTIFY THE CONNECTOR INTERFACE

Usability of any backshell is governed by the connector interface on to which the backshell is supposed be coupled. TICS identifies the connector interface with the letter following the Series name, in its ordering information.

TI backshells are either designed for use against popular standard connector interfaces as defined in the SAE-AS85049 standard, or made to suite non-standard connector interfaces like MIL-DTL-26482 Series-1 and MIL-DTL-5015 solder, with specific thread specifications defined for the connector. The available TI backshell interfaces are mentioned in ‘**CONNECTOR INTERFACE DATA**’ page (13).

3. SELECT A SUITABLE COUPLING OPTION

The backshell coupled to any connector should be robust enough to withstand severe mechanical loading conditions like high continuous vibrations, which may cause un-intended uncoupling - leading to the loss of primary function like shielding/ contact- cable protection or strain relief. Use of backshells with **self-locking** option will avoid this to a large scale. TI backshells with self-locking options are designed to provide audible detented self-locking and to withstand the requirements of the SAE-AS85049 standard.



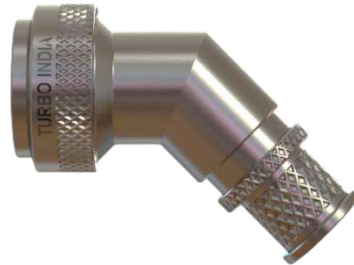
For application environments encountering NIL or intermittent minor vibrations, the User may select a backshell with the free-spinning coupling option. To improve on the safety factor for the free-spinning versions, the User is also offered an option of selecting a **free-spinning backshell** with safety-wire-holes on the coupling nut. Safety wire holes may be used to secure the coupled backshell with an external wire, against un-intended uncoupling.

Apart from self-locking and free-spinning backshells which adopts a multi-part coupling nut - locking adaptor design, certain TI backshell series are offered with single part **direct coupled adaptor**, without a coupling nut. The option to select different coupling styles available at TI, is provided in the specific ordering information matrix for different backshell series.



4. SELECT A SUITABLE BACKSHELL ANGLE

TI offers selection of straight as well as angled profiles in its backshells for effective cable management. The offered angles are generally **45°** and **90°** for select backshell series, but customized options may also be offered. The selection of backshells should be based on the available room for cable routing, accessibility for repair or rework, and to avoid over-straining due to acute angles.



5. SPECIFY BASE MATERIAL AND FINISH

The material and finish selection of a backshell should be same as the connector material and finish. This ensures satisfying conductivity requirements on a grounding backshells apart from avoiding galvanic corrosion due to dissimilar metal contact.

TI offers its backshells in aluminium alloy, with a surface plating of cadmium, electroless nickel, zinc nickel and zinc cobalt. All SAE-AS85049 equivalents satisfy the salt spray requirements of the standard. In addition, backshells are also offered in passivated stainless steel and nickel-aluminium bronze.

Options to select the desired material and finish for TI backshells are specified in the ordering information matrix, specific to different backshell series.

6. SELECT SHELL SIZE, CABLE ENTRY & BACKSHELL LENGTH

TI backshell shell sizes are defined corresponding to the connector shell size. The design and construction of standard offerings are made based on SAE-AS85049.

Customized variants with regard to cable entry and length are also offered, and the available options are defined specific to the backshell series and identified in the backshell part number.

Cable entry defines the size of the jacketed cable or the cable bundle that may be routed through the backshell, to be terminated to the connector. Selection should be in such a way that the cable / cable bundle diameters are taken in smoothly without tightening on the cable, while avoiding a clearance slack of more than 1mm radially. TI offers the standard cable entry sizes based on SAE-AS85049 standard and an addition of customized ranges, defined as in the ordering information matrix.

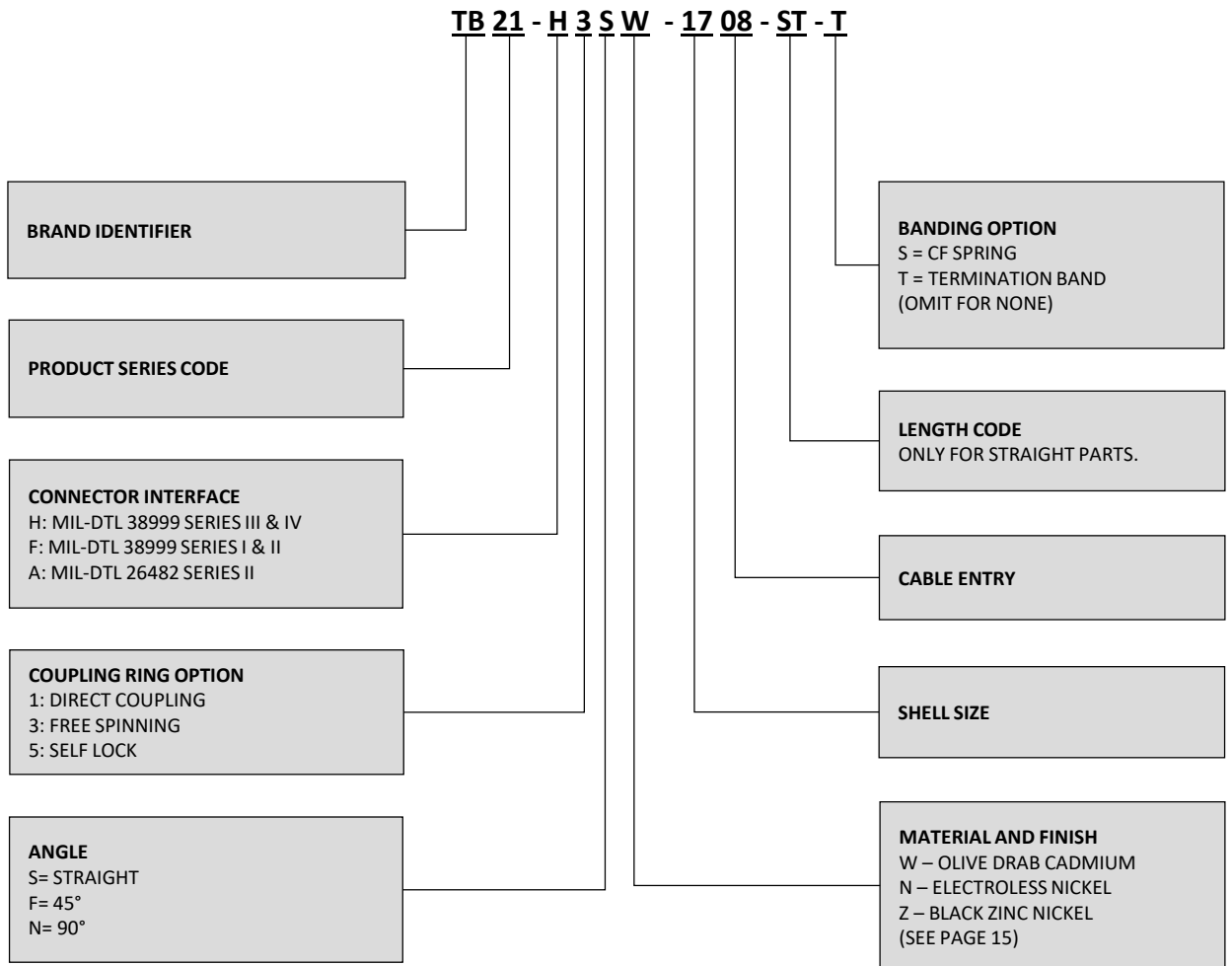
Standard TI backshell are offered satisfying the length requirements of SAE-AS85049 and in increments of half inch defined for specific backshells in corresponding ordering information matrix. The extend of availability for increments in length may be confirmed by the User, with TI sales, during enquiry/ before placing orders.

7. SELECT/ SPECIFY SPECIAL REQUIREMENTS






TI backshell part numbers provide an option for listing additional special features required by the User, either developed and part of standard offerings as defined in specific ordering information matrix for the backshell series, or proposed by User and mutually agreed upon.

The backshell selection steps listed above in most cases, will help customers in choosing a TI part number satisfying the User requirements, from the standard offerings. Alternatively, the requirements may be floated or an equivalent SAE-AS85049/ competitor part number shared, to the TI team who may suggest a suitable backshell part number for quote/ procurement.

PART NUMBER BREAKDOWN CIRCULAR BACKSHELLS



PRODUCT FINDER

SERIES CODE	MODEL	DESCRIPTION	PAGE NO
SERIES 21		EMI/RFI BAND OR SPRING ADAPTER	22
SERIES 31		EMI/RFI – MEMORY RING ADAPTER	40
SERIES 41		SHRINK BOOT ADAPTER	46
SERIES 51		EMI/RFI SHIELD SOCK SHRINK BOOT ADAPTER	52
SERIES 54		STRAIN RELIEF STRAIGHT ADAPTER	58
SERIES 55		STRAIN RELIEF 90° ADAPTER	72
SERIES 61		EMI/RFI LAMP BASE THREAD ADAPTER	82
SERIES 64		TIE STRAP ADAPTER	91
SERIES 21PB		SORTING ADAPTER	93
SERIES 20		CRIMP RING ADAPTER	95



PRODUCT FINDER

SERIES CODE	MODEL	DESCRIPTION	PAGE NO
SERIES 110-01		SUBMERSIBLE CABLE CLAMP ADAPTER - ENVIRONMENTAL , NON SCREENED	98
SERIES 110-02		CABLE CLAMP ADAPTER - NON ENVIRONMENTAL , NON SCREENED	101
SERIES 110-03		SUBMERSIBLE CABLE CLAMP ADAPTER - ENVIRONMENTAL , SCREENED	104
SERIES 110-04		CABLE CLAMP ADAPTER- NON ENVIRONMENTAL, SCREENED	108
SERIES 110-06		EMI/RFI CABLE CLAMP ADAPTER - NON ENVIRONMENTAL , SCREENED	110
SERIES 120-01		EMI/RFI ULTRA LOW PROFILE BACKSHELL	116
SERIES 160-01		BAND-IN-A-CAN ADAPTER, ENVIRONMENTAL	120
SERIES 160-02		BAND-IN-A-CAN ADAPTERS, NON- ENVIRONMENTAL	123

INTERFACE DATA

CONNECTOR INTERFACE DATA					
TURBO INTERFACE CODE	EQUIVALENT INTERFACE DESIGNATION OF VARIOUS BRANDS				BACKSHELLS DESIGNED TO BE USED IN CONNECTOR SERIES:
	POLAMCO	AMPHENOL	GLENAIR	RAYCHEM	
A	A	J	A	54	MIL-DTL-5015H & MIL-DTL-26482 SERIES II
A	A	J	A	54	MIL-DTL-83723 SERIES III (BAYONET)
A	A	J	A	54	MIL-DTL 83723 SERIES III (THREADED)
F	F	K	F	41	MIL-DTL-38999 SERIES I
F	F	K	F	41	MIL-DTL-38999 SERIES II
T	D & DG	-	D	21	MIL-DTL-26482 SERIES I SOLDER
H	H	L	H	40	MIL-DTL-38999 SERIES III / EN3645
H	H	L	H	40	MIL-DTL-38999 SERIES IV
B	L, LS, LM & LV	J	B	18	MIL-DTL-5015 SOLDER M3100, MS3101, MS3106, Amphenol - Class A (Blue Insert)

➤ To discuss connector interface options not shown, mail to us on sales@turboindia.co.in

COUPLING RING OPTIONS



DIRECT COUPLING (1)

The coupling nut is eliminated in this design, and the backshell directly threads to the connector.



FREE SPINNING (3)

Free Spinning Adapters makes the assembly of the backshell to the connector easy without turning the entire backshell body. The coupling nut is free to rotate in this design.



SELF LOCK – DETENT (5)

The movement of coupling nut is locked by means of an anti decoupling device in this design. The Self Lock adapters are the most popular among the many backshell adapter variants.

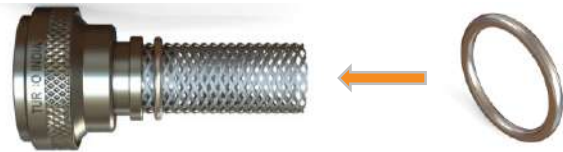
MATERIAL & FINISH CODE

TURBO CODE	MILITARY CODE	MATERIAL	FINISH	APPEARANCE	PROCESS	ROHS COMPLIANT	SALT SPRAY HOURS
A	A	ALUMINIUM ALLOY	BLACK ANODIZED	GREY / BLACK	AMS-A-8625 Type II Class 2, Non-Conductive -65 to +175°C	YES	336
AH	-	ALUMINIUM ALLOY	HARD ANODIZED	BLACK	AMS-A-8625 Type III, Class 2, .001" thick, Non-Conductive -65 to +200°C	YES	336
N	N	ALUMINIUM ALLOY	ELECTROLESS NICKEL	BRIGHT METAL	AMS-C-26074 Class 4 Grade A; ASTM-B-733, SC 2, Type IV, Conductive -65 to +200°C	YES	96
W	W	ALUMINIUM ALLOY	CADMIUM	OLIVE DRAB GREEN	AMS-QQ-P-416 Type II Class 2 over electroless nickel, Conductive -65 to +175°C	NO	500
WS	W	ALUMINIUM ALLOY	CADMIUM	OLIVE DRAB GREEN	AMS-QQ-P-416 Type II Class 2 over electroless nickel, Conductive -65 to +175°C	NO	1000
Z	Z	ALUMINIUM ALLOY	ZINC NICKEL	BLACK	ASTM B841 Grade 5 over electroless nickel, Conductive -65 to +175°C	NO	500
VB	-	ALUMINIUM ALLOY	ZINC COBALT	BLACK	ASTM B 840 Grade 6 Type D over electroless nickel, Conductive -65 to +175°C	YES	350
VO	-	ALUMINIUM ALLOY	ZINC COBALT	OLIVE DRAB GREEN	ASTM B 840 Grade 6 Type D over electroless nickel, Conductive -65 to +175°C	YES	350
NU	-	NICKEL ALUMINIUM BRONZE	UNPLATED	BRIGHT METAL	Conductive -65 to +200°C	YES	1000
NS	-	NICKEL ALUMINIUM BRONZE	SHOT BLASTED	MATTE METAL	Conductive -65 to +200°C	YES	1000
S	S	STAINLESS STEEL	PASSIVATION	BRIGHT METAL	AMS-QQ-P-35 Type VI, Conductive -65 to +200°C	YES	1000
Y	F	ALUMINIUM ALLOY	CADMIUM	GOLD - YELLOW	AMS-QQ-P-416, Type II, Class 2, over electroless Nickel, Conductive -65 to +175°C	NO	1000
WC	-	ALUMINIUM ALLOY	CADMIUM	CLEAR - BRIGHT METAL	AMS-QQ-P-416, Type II, Class 2, over electroless Nickel, Conductive -65 to +175°C	NO	1000
L	-	STAINLESS STEEL	ELECTROLESS NICKEL	BRIGHT METAL	AMS-C-26074, Grade B, Conductive -65 to +200°C	YES	500

BRAID TERMINATIONS

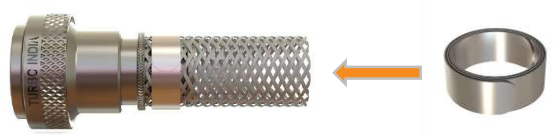
1. MEMORY RING

MEMORY RING SHRUNK BY THE APPLICATION OF HEAT USING A TOOL.



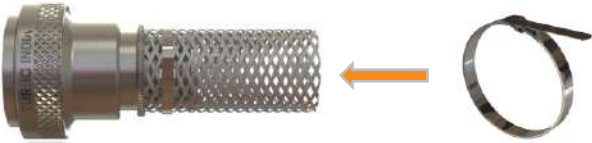
4. SPRING

SPRING WRAPPED AROUND BRAID (WITHOUT TOOLING).



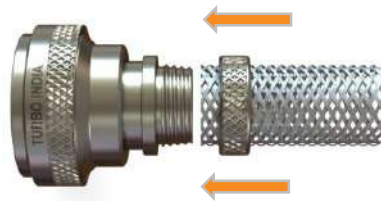
2. BAND

BAND CLAMPED WITH CALIBRATED TOOL.



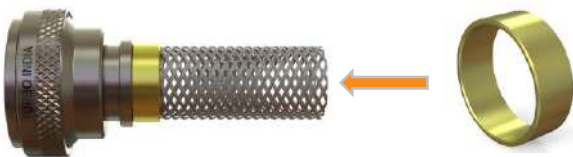
5. THREAD LOCK

BRAID TRAPPED IN LOOSE FITTING MALE AND FEMALE THREAD.



3. CRIMP RING

PRODUCT SUPPLIED WITH PRE-TERMINATED BRAID.



6. CONE

BRAID CLAMPED BETWEEN CONES.



TORQUE VALUE

INSTALLATION TORQUE VALUES FOR CIRCULAR BACKSHELLS AS PER SAE-AS85049		
CONNECTOR SHELL SIZE	LIGHT & MEDIUM DUTY	HEAVY DUTY
	TORQUE (in-lb) ± 5	TORQUE (in-lb) ± 5
08 , 09	50	75
03, 10, 10SL, 11	50	100
07, 12, 12S, 13	50	140
14, 14S, 15	50	150
16, 16S, 17	50	150
18, 19, 27	50	150
20, 21, 37	100	175
22, 23	100	175
24, 25, 61	100	175
28	N/A	190
32	N/A	190
36	N/A	190
40	N/A	210
44	N/A	210
48	N/A	210

INTERFACE & THREAD

H - INTERFACE		
SHELL SIZE	A - THREAD	MAX CABLE ENTRY
09	M12 x 1.0	05
11	M15 x 1.0	07
13	M18 x 1.0	09
15	M22 x 1.0	11
17	M25 x 1.0	13
19	M28 x 1.0	14
21	M31 x 1.0	16
23	M34 x 1.0	18
25	M37 x 1.0	20

F - INTERFACE		
SHELL SIZE	A - THREAD	MAX CABLE ENTRY
09/08	7/16 - 28 UNEF	04
11/10	9/16 - 24 UNEF	06
13/12	11/16 - 24 UNEF	08
15/14	13/16 - 20 UNEF	10
17/16	15/16 - 20 UNEF	12
19/18	1-1/16 - 18 UNEF	14
21/20	1-3/16 - 18 UNEF	16
23/22	1-5/16 - 18 UNEF	18
25/24	1-7/16 - 18 UNEF	20

A - INTERFACE		
SHELL SIZE	A - THREAD	MAX CABLE ENTRY
08	1/2 - 20 UNEF	04
10	5/8 - 24 UNEF	06
12	3/4 - 20 UNEF	08
14	7/8 - 20 UNEF	09
16	1 - 20 UNEF	11
18	1-1/16 - 18 UNEF	12
20	1-3/16 - 18 UNEF	14
22	1-5/16 - 18 UNEF	16
24	1-7/16 - 18 UNEF	18

POPULAR CROSS REFERENCE WITH TURBO PRODUCT SERIES

MIL-DTL-38999 SERIES III & IV CIRCULAR BACKSHELL			
TURBO SERIES CODE	MIL STYLE	GLENAIR	TE / POLAMCO
		H	H
SERIES 21	AS85049/88 AS85049/89 AS85049/90	440HS030	91H
SERIES 31	---	440HS084	60H
SERIES 41	AS85049/69	310HS001	97H
SERIES 51	AS85049/115 AS85049/117	319HS001	70H
SERIES 54	AS85049/38	620HS011	96H1
SERIES 55	AS85049/39	620HA011	96H3
SERIES 61	---	311HS001	95H
SERIES 64	AS85049/15 AS85049/16	450HS001	86H
SERIES 20	AS85049/20	---	---
SERIES 21PB	AS85049/14	---	---
SERIES 110-01	---	370HS001	37H
SERIES 110-02	---	360HS001	37H(NE)
SERIES 110-03	---	390HS011	39H
SERIES 110-04	AS85049/19	380HS005	39H(NE)
SERIES 110-06	---	380HS105	---
SERIES 120-01	---	440HC030	BTH3C
SERIES 160-01	---	443HS009	88H
SERIES 160-02	---	447HS425	88H(NE)

POPULAR CROSS REFERENCE WITH TURBO PRODUCT SERIES

MIL-DTL 38999 SERIES I & II CIRCULAR BACKSHELL			
TURBO SERIES CODE	MIL STYLE	GLENAIR	TE / POLAMCO
		F	F
SERIES 21	AS85049/85 AS85049/86 AS85049/87	440FS030	91F
SERIES 31	---	440FS084	60F
SERIES 41	AS85049/62	310FS001	97F
SERIES 51	AS85049/112 AS85049/114	319FS001	70F
SERIES 54	AS85049/49-2	620FS011	96F1
SERIES 55	AS85049/47	620FA011	96F3
SERIES 61	---	311FS001	95F
SERIES 20	AS85049/26-1	450FS001	86F

MIL-DTL-26482 SERIES II CIRCULAR BACKSHELL			
TURBO SERIES CODE	MIL STYLE	GLENAIR	TE / POLAMCO
		A	A
SERIES 21	AS85049/82 AS85049/83 AS85049/84	440AS030	91A
SERIES 31	---	440AS084	60A
SERIES 41	AS85049/60-1	310AS001	97A
SERIES 51	AS85049/109 AS85049/111	319AS001	70A
SERIES 54	AS85049/52	620AS011	96A1
SERIES 55	AS85049/51	620AA011	96A3
SERIES 61	---	311AS001	95A
SERIES 20	AS85049/33-2	---	---

CIRCULAR BACKSHELLS

TI offers a comprehensive range of circular backshells ideal for use in rugged and harsh environment applications. All the backshells manufactured at our facility are compatible with applicable military specifications or commercial equivalents.

Backshells can be selected based on a wide variety of termination options including the Banding, Shield Sock, Memory Ring, Band In a Can and Cable Clamp Strain Reliefs.

With a range of materials & finishes, coupling ring styles and cable entry configurations, TI offers a one stop solution for protecting your military connectors.

SERIES 21

TABLE- II BACKSHELL DIMENSIONS

SHELL SIZE		A THREAD	ØC MAX	MAX CABLE ENTRY
SERIES I	SERIES II			
09	08	7/16 - 28 UNEF	18.80	04
11	10	9/16 - 24 UNEF	19.00	06
13	12	11/16 - 24 UNEF	22.16	08
15	14	13/16 - 20 UNEF	25.34	10
17	16	15/16 - 20 UNEF	29.31	12
19	18	1-1/16 - 18 UNEF	32.49	14
21	20	1-3/16 - 18 UNEF	36.46	16
23	22	1-5/16 - 18 UNEF	39.63	18
25	24	1-7/16 - 18 UNEF	41.48	20

TABLE- IV MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

TABLE- III CABLE ENTRY

DASH NO	ØK +0.20	ØM MAX
2	3.20	10.41
3	4.70	11.91
4	6.30	13.51
5	7.90	15.11
6	9.50	16.71
7	11.10	18.31
8	12.70	19.91
9	14.20	21.41
10	15.80	23.01
11	17.40	24.61
12	19.00	26.21
13	20.60	27.81
14	22.20	29.41
15	23.80	31.01
16	25.40	32.61
17	27.00	34.21
18	28.60	35.81
19	30.20	37.41
20	31.80	39.01
21	33.30	40.51
22	35.00	42.21
23	36.50	43.71
24	38.10	45.31

➤ All dimensions are given in mm.



SERIES 21

TABLE- II BACKSHELL DIMENSIONS			
SHELL SIZE	A THREAD	ØC MAX	MAX CABLE ENTRY
09	M12 x 1.0	16.50	05
11	M15 x 1.0	19.00	07
13	M18 x 1.0	22.16	09
15	M22 x 1.0	25.34	11
17	M25 x 1.0	29.31	13
19	M28 x 1.0	32.49	14
21	M31 x 1.0	36.46	16
23	M34 x 1.0	39.63	18
25	M37 x 1.0	41.48	20

TABLE- IV MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

TABLE- III CABLE ENTRY		
DASH NO	ØK +0.20	ØM MAX
2	3.20	10.41
3	4.70	11.91
4	6.30	13.51
5	7.90	15.11
6	9.50	16.71
7	11.10	18.31
8	12.70	19.91
9	14.20	21.41
10	15.80	23.01
11	17.40	24.61
12	19.00	26.21
13	20.60	27.81
14	22.20	29.41
15	23.80	31.01
16	25.40	32.61
17	27.00	34.21
18	28.60	35.81
19	30.20	37.41
20	31.80	39.01
21	33.30	40.51
22	35.00	42.21
23	36.50	43.71
24	38.10	45.31

➤ All dimensions are given in mm.



SERIES 21

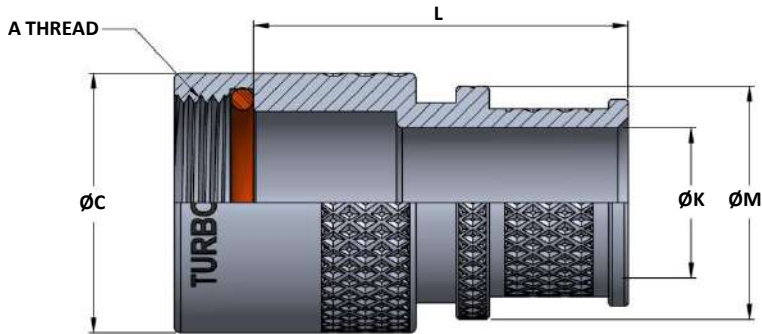


TABLE- I BANDING OPTIONS



S = CONSTANT FORCE SPRING



T = TERMINATION BAND

FOR SELECTING SUITABLE TERMINATION ACCESSORY, GO TO ACCESSORIES SECTION IN CATALOG

ORDERING INFORMATION

TB 21 - A 1 S W - 18 07 - ST - T

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
A: MIL-DTL- 26482 SERIES II

COUPLING RING OPTION
1: DIRECT COUPLING

ANGLE
S= STRAIGHT

MATERIAL & FINISH
(SEE TABLE - IV)

BANDING OPTION

S = CF SPRING
T = TERMINATION BAND
(SEE TABLE-I, OMIT FOR NONE)

LENGTH CODE

ONLY FOR STRAIGHT PARTS.
ST FOR STANDARD LENGTH
(L) - 1.25" (1/2" INCREMENT.
FOR EXAMPLE 8 = 4 INCHES)

CABLE ENTRY
(SEE TABLE - III)

SHELL SIZE
(SEE TABLE - II)

SERIES 21

TABLE- II BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	ØC MAX	MAX CABLE ENTRY
08	1/2 - 20 UNEF	18.80	04
10	5/8 - 24 UNEF	19.09	06
12	3/4 - 20 UNEF	22.26	08
14	7/8 - 20 UNEF	25.44	09
16	1 - 20 UNEF	29.41	11
18	1-1/16 - 18 UNEF	32.59	12
20	1-3/16 - 18 UNEF	36.56	14
22	1-5/16 - 18 UNEF	39.73	16
24	1-7/16 - 18 UNEF	39.73	18

TABLE- IV MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

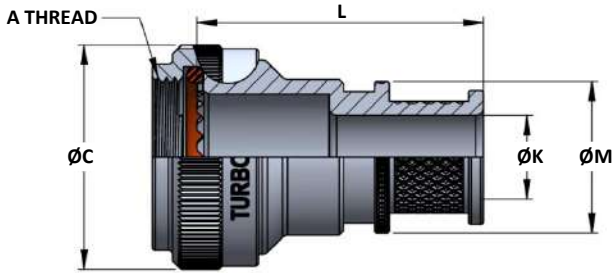
TABLE- III CABLE ENTRY

DASH NO	ØK +0.20	ØM MAX
2	3.20	10.41
3	4.70	11.91
4	6.30	13.51
5	7.90	15.11
6	9.50	16.71
7	11.10	18.31
8	12.70	19.91
9	14.20	21.41
10	15.80	23.01
11	17.40	24.61
12	19.00	26.21
13	20.60	27.81
14	22.20	29.41
15	23.80	31.01
16	25.40	32.61
17	27.00	34.21
18	28.60	35.81
19	30.20	37.41
20	31.80	39.01
21	33.30	40.51
22	35.00	42.21
23	36.50	43.71
24	38.10	45.31

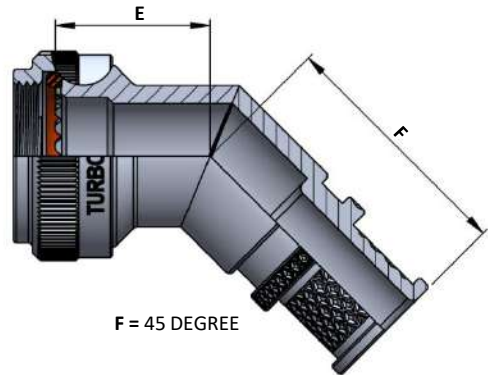
➤ All dimensions are given in mm.



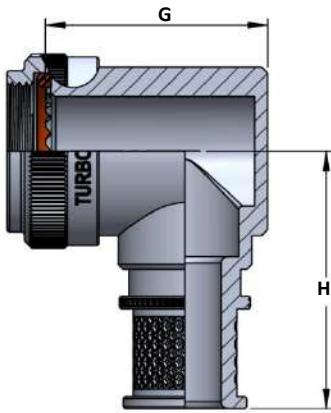
SERIES 21



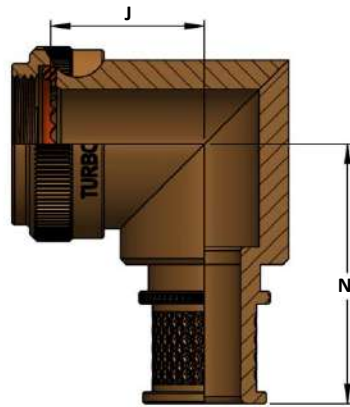
S = STRAIGHT



F = 45 DEGREE



N = 90 DEGREE



N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 21 - F 3 N W - 18 07 - ST - T

BRAND IDENTIFIER	TB	BANDING OPTION S = CF SPRING T = TERMINATION BAND (SEE TABLE-IV, OMIT FOR NONE)
PRODUCT SERIES CODE	21	
CONNECTOR INTERFACE F: MIL-DTL 38999 SERIES I & II	F	LENGTH CODE ONLY FOR STRAIGHT PARTS. ST FOR STANDARD LENGTH (L) - 1.25" (1/2" INCREMENT. FOR EXAMPLE 8 = 4 INCHES)
COUPLING RING OPTION 3: FREE SPINNING	3	CABLE ENTRY (SEE TABLE - II)
ANGLE S= STRAIGHT, F= 45° & N= 90°	N	SHELL SIZE (SEE TABLE - I)
MATERIAL & FINISH (SEE TABLE - III)	W	
	18	
	07	
	ST	
	T	



SERIES 21

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE		A THREAD	RING DIMENSION	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
SERIES I	SERIES II		ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX	N MAX
09	08	7/16 - 28 UNEF	18.30	17.90	26.70	24.70	24.70	16.00	31.00
11	10	9/16 - 24 UNEF	21.50	18.70	27.90	27.20	27.20	18.00	32.70
13	12	11/16 - 24 UNEF	24.80	19.10	28.30	30.20	30.20	19.00	34.20
15	14	13/16 - 20 UNEF	28.10	20.00	29.20	33.20	33.20	21.00	35.70
17	16	15/16 - 20 UNEF	31.10	20.70	30.00	36.70	36.70	22.50	37.40
19	18	1-1/16 - 18 UNEF	34.30	21.10	30.30	40.70	40.70	24.00	38.90
21	20	1-3/16 - 18 UNEF	37.60	21.90	31.10	43.20	43.20	26.00	41.60
23	22	1-5/16 - 18 UNEF	40.80	22.30	31.50	46.20	46.20	27.00	42.10
25	24	1-7/16 - 18 UNEF	44.00	23.20	32.40	49.20	49.20	29.00	43.60

TABLE- II CABLE ENTRY

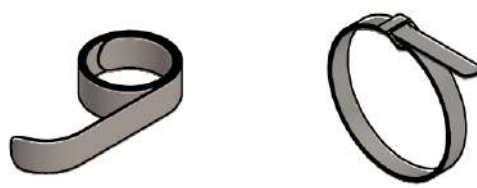
DASH NO	ØK +0.20	ØM MAX	DASH NO	ØK +0.20	ØM MAX
2	3.20	10.41	14	22.20	29.41
3	4.70	11.91	15	23.80	31.01
4	6.30	13.51	16	25.40	32.61
5	7.90	15.11	17	27.00	34.21
6	9.50	16.71	18	28.60	35.81
7	11.10	18.31	19	30.20	37.41
8	12.70	19.91	20	31.80	39.01
9	14.20	21.41	21	33.30	40.51
10	15.80	23.01	22	35.00	42.21
11	17.40	24.61	23	36.50	43.71
12	19.00	26.21	24	38.10	45.31
13	20.60	27.81			

TABLE- III MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

TABLE- IV BANDING OPTIONS



S = CONSTANT FORCE SPRING T = TERMINATION BAND

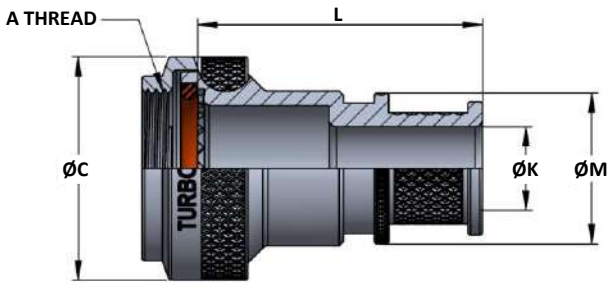
FOR SELECTING SUITABLE TERMINATION ACCESSORY, GO TO ACCESSORIES SECTION IN CATALOG



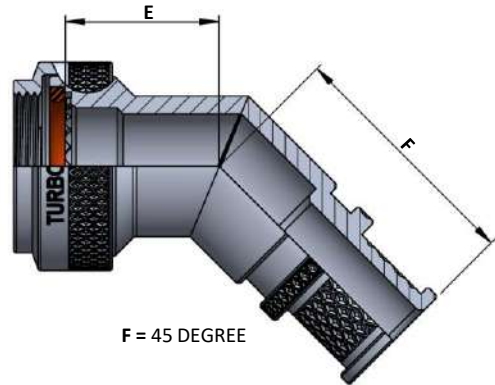
- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.



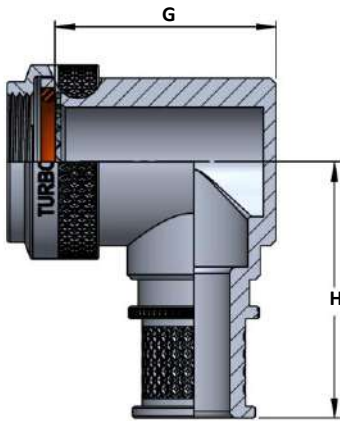
SERIES 21



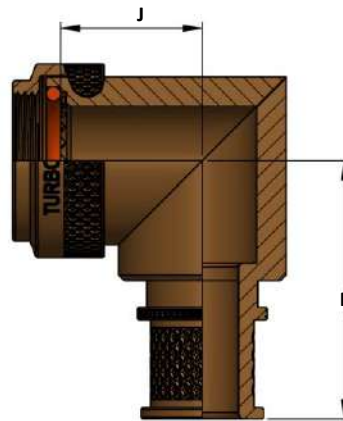
S = STRAIGHT



F = 45 DEGREE



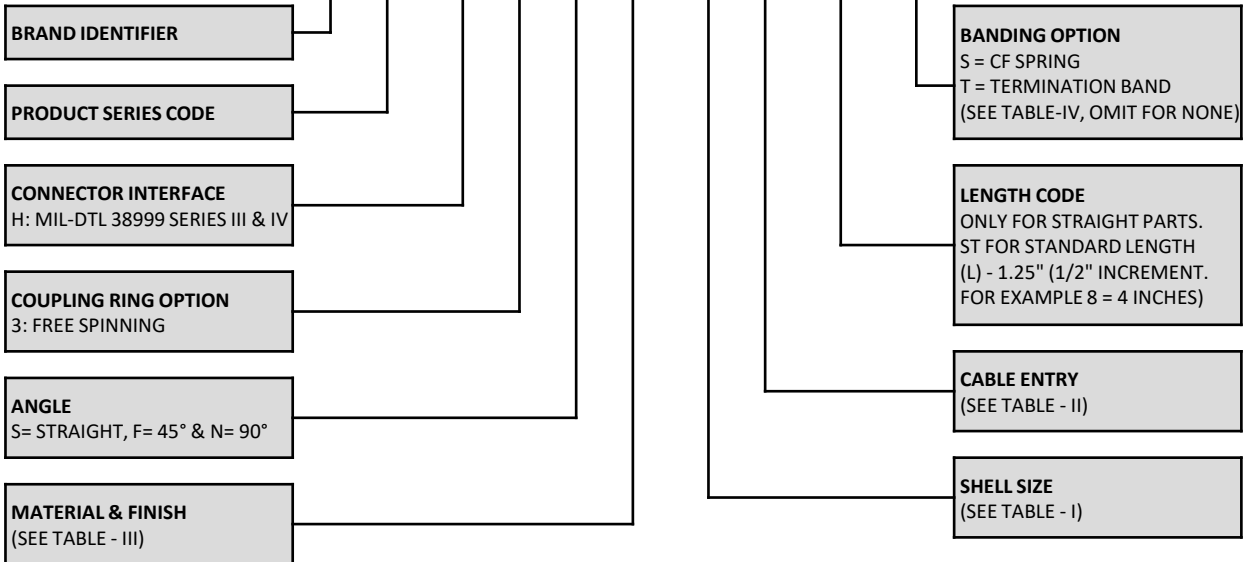
N = 90 DEGREE



N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 21 - H 3 N W - 17 07 - ST - T



SERIES 21

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
			ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX
09	M12 x 1.0	19.00	14.10	26.70	27.70	31.50	17.40	33.40
11	M15 x 1.0	21.80	14.90	27.90	28.70	33.20	18.80	34.60
13	M18 x 1.0	25.40	15.50	28.30	33.20	34.70	20.60	35.80
15	M22 x 1.0	29.30	16.50	29.20	39.20	36.20	22.70	37.60
17	M25 x 1.0	32.00	17.10	30.00	42.20	37.90	24.30	39.50
19	M28 x 1.0	35.40	17.80	30.30	46.70	39.50	26.40	41.30
21	M31 x 1.0	39.30	18.10	31.10	49.70	41.10	27.10	43.00
23	M34 x 1.0	41.55	18.70	31.50	52.20	42.60	28.60	44.40
25	M37 x 1.0	46.12	19.40	32.40	53.70	44.10	30.10	45.80

TABLE- II CABLE ENTRY

DASH NO	ØK +0.20	ØM MAX	DASH NO	ØK +0.20	ØM MAX
2	3.20	10.41	14	22.20	29.41
3	4.70	11.91	15	23.80	31.01
4	6.30	13.51	16	25.40	32.61
5	7.90	15.11	17	27.00	34.21
6	9.50	16.71	18	28.60	35.81
7	11.10	18.31	19	30.20	37.41
8	12.70	19.91	20	31.80	39.01
9	14.20	21.41	21	33.30	40.51
10	15.80	23.01	22	35.00	42.21
11	17.40	24.61	23	36.50	43.71
12	19.00	26.21	24	38.10	45.31
13	20.60	27.81			

TABLE- III MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

TABLE- IV BANDING OPTIONS

S = CONSTANT FORCE SPRING **T = TERMINATION BAND**

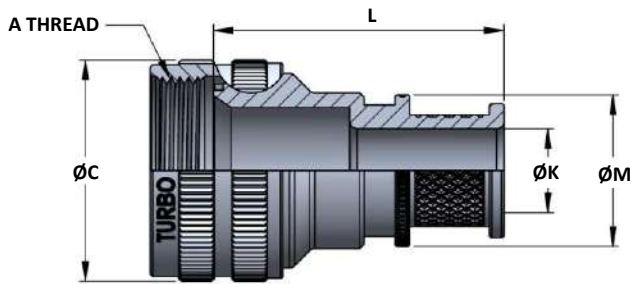
FOR SELECTING SUITABLE TERMINATION ACCESSORY, GO TO ACCESSORIES SECTION IN CATALOG



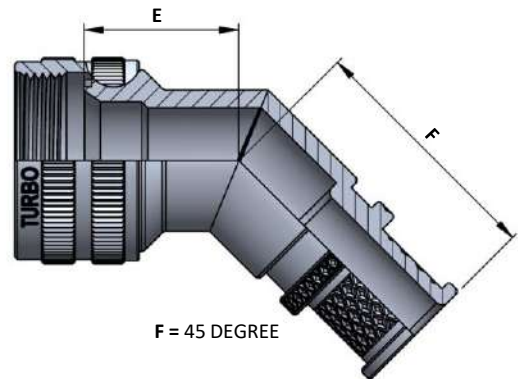
- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.



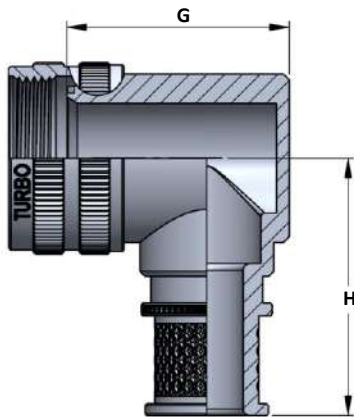
SERIES 21



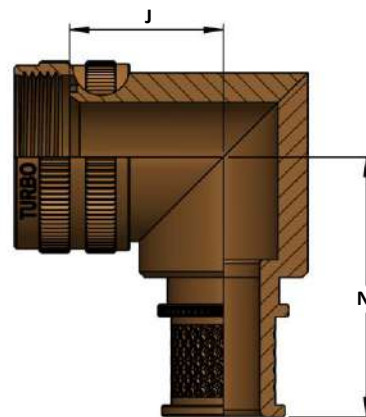
S = STRAIGHT



F = 45 DEGREE



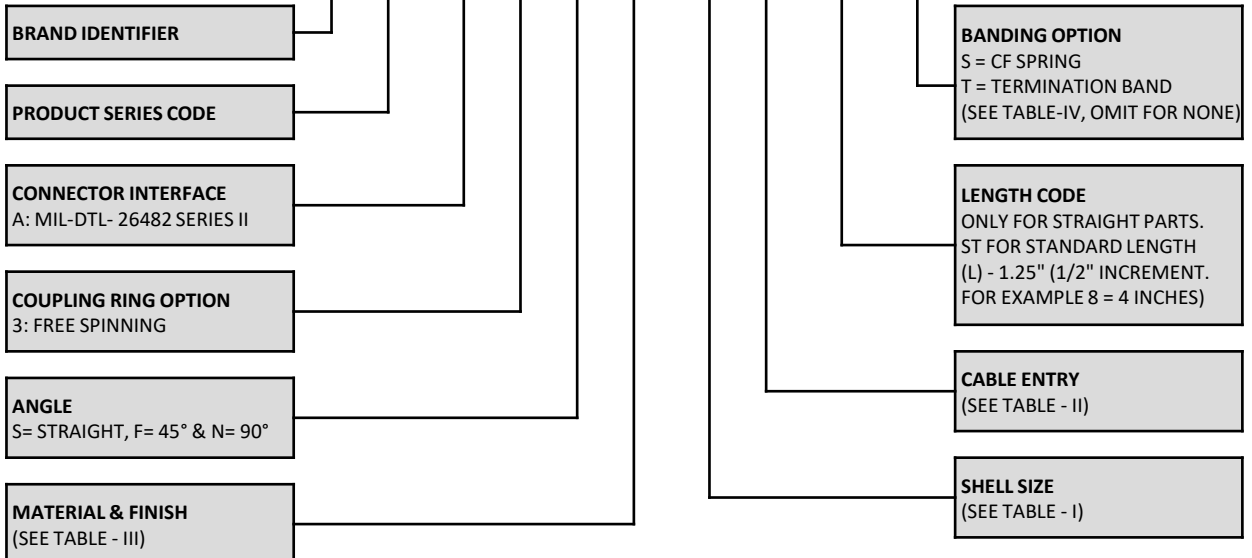
N = 90 DEGREE



N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 21 - A 3 N W - 16 07 - ST - T



SERIES 21

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
			ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX
08	1/2 - 20 UNEF	16.00	18.10	27.40	25.70	31.00	18.50	31.00
10	5/8 - 24 UNEF	18.70	18.30	27.20	27.70	33.00	19.80	33.00
12	3/4 - 20 UNEF	22.10	18.80	27.10	30.20	32.80	21.40	32.80
14	7/8 - 20 UNEF	25.20	19.60	28.90	31.70	34.40	22.50	34.40
16	1 - 20 UNEF	28.40	20.50	29.20	35.20	37.70	24.00	37.70
18	1-1/16 - 18 UNEF	31.10	20.70	30.10	38.20	37.70	25.00	37.70
20	1-3/16 - 18 UNEF	34.30	21.60	30.30	43.20	39.30	26.70	39.30
22	1-5/16 - 18 UNEF	37.50	21.80	30.60	45.20	41.60	28.20	41.60
24	1-7/16 - 18 UNEF	40.60	23.30	32.50	46.20	42.60	29.70	42.60

TABLE- II CABLE ENTRY

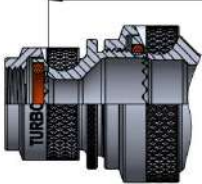
DASH NO	ØK +0.20	ØM MAX	DASH NO	ØK +0.20	ØM MAX
2	3.20	10.41	14	22.20	29.41
3	4.70	11.91	15	23.80	31.01
4	6.30	13.51	16	25.40	32.61
5	7.90	15.11	17	27.00	34.21
6	9.50	16.71	18	28.60	35.81
7	11.10	18.31	19	30.20	37.41
8	12.70	19.91	20	31.80	39.01
9	14.20	21.41	21	33.30	40.51
10	15.80	23.01	22	35.00	42.21
11	17.40	24.61	23	36.50	43.71
12	19.00	26.21	24	38.10	45.31
13	20.60	27.81			

TABLE- III MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

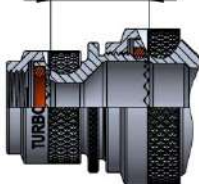
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

MINIMUM ORDER LENGTH 50.80



STYLE -2
STRAIGHT

22.4 MAX



STYLE -2
45° & 90°

TABLE- IV BANDING OPTIONS



S = CONSTANT FORCE
SPRING



T = TERMINATION
BAND

FOR SELECTING SUITABLE TERMINATION ACCESSORY, GO TO ACCESSORIES SECTION IN CATALOG

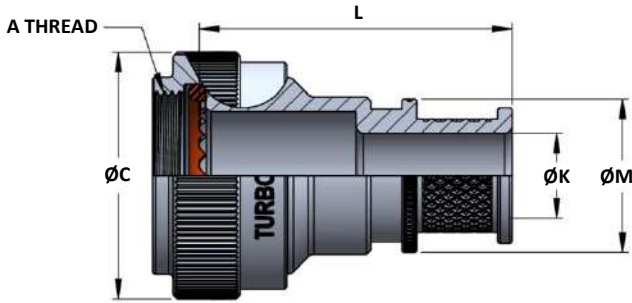
- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.



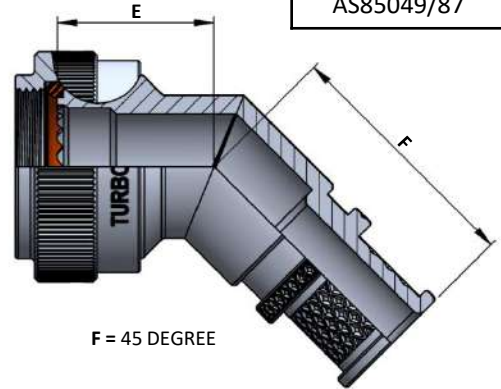
SERIES 21

MIL STYLE

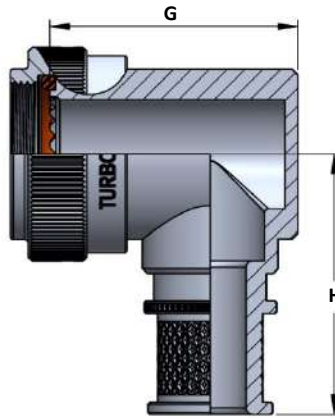
AS85049/85
AS85049/86
AS85049/87



S = STRAIGHT



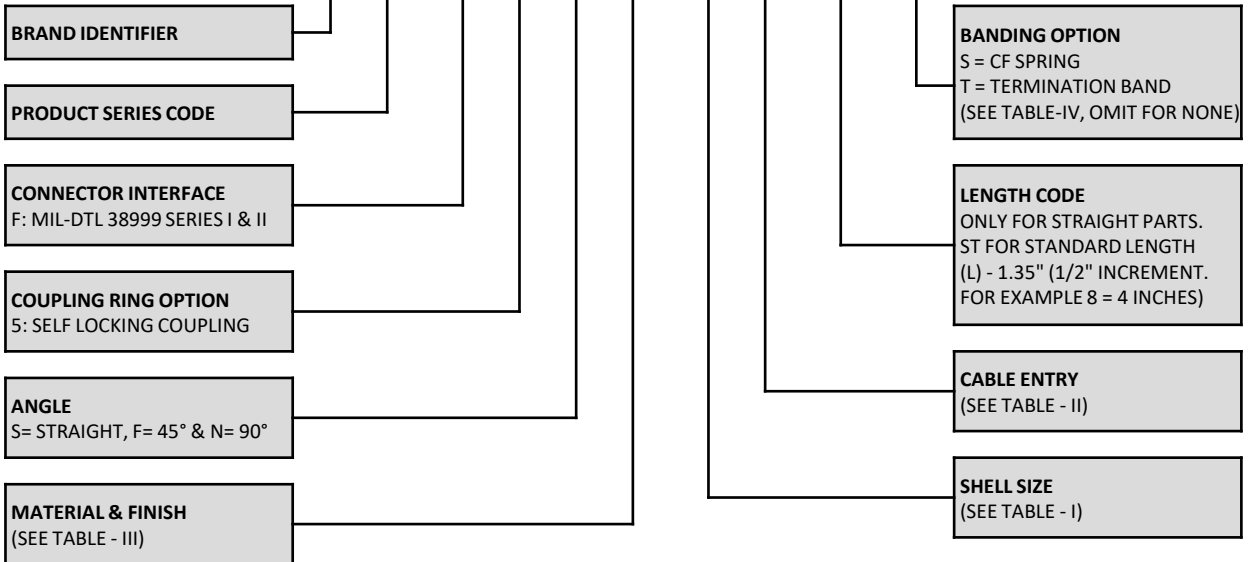
F = 45 DEGREE



N = 90 DEGREE

ORDERING INFORMATION

TB 21 - F 5 N W - 16 07 - ST - T





SERIES 21

TABLE- I BACKSHELL DIMENSIONS							
SHELL SIZE		A THREAD	RING DIMENSION	ELBOW DIMENSIONS			
SERIES I	SERIES II		ØC MAX	E MAX	F MAX	G MAX	H MAX
09	08	7/16 - 28 UNEF	21.80	18.40	26.70	29.00	31.00
11	10	9/16 - 24 UNEF	25.00	19.20	27.90	32.50	32.70
13	12	11/16 - 24 UNEF	29.35	19.60	28.30	35.50	34.20
15	14	13/16 - 20 UNEF	32.54	20.50	29.20	38.50	35.70
17	16	15/16 - 20 UNEF	35.70	21.20	30.00	42.00	37.40
19	18	1-1/16 - 18 UNEF	38.50	21.60	30.30	46.00	38.90
21	20	1-3/16 - 18 UNEF	41.65	22.40	31.10	48.50	41.60
23	22	1-5/16 - 18 UNEF	44.85	22.80	31.50	51.50	42.10
25	24	1-7/16 - 18 UNEF	48.00	23.70	32.40	54.00	43.60

TABLE- II CABLE ENTRY					
DASH NO	ØK +0.20	ØM MAX	DASH NO	ØK +0.20	ØM MAX
2	3.20	10.41	14	22.20	29.41
3	4.70	11.91	15	23.80	31.01
4	6.30	13.51	16	25.40	32.61
5	7.90	15.11	17	27.00	34.21
6	9.50	16.71	18	28.60	35.81
7	11.10	18.31	19	30.20	37.41
8	12.70	19.91	20	31.80	39.01
9	14.20	21.41	21	33.30	40.51
10	15.80	23.01	22	35.00	42.21
11	17.40	24.61	23	36.50	43.71
12	19.00	26.21	24	38.10	45.31
13	20.60	27.81			

TABLE- III MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

TABLE- IV BANDING OPTIONS	
	
S = CONSTANT FORCE SPRING	T = TERMINATION BAND
FOR SELECTING SUITABLE TERMINATION ACCESSORY, GO TO ACCESSORIES SECTION IN CATALOG	



- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.



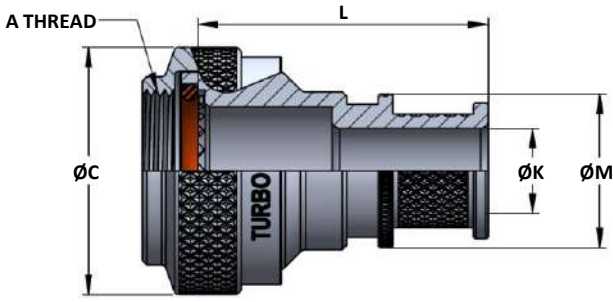
EMI/RFI BAND OR SPRING ADAPTER – SELF LOCKING COUPLING

MIL-DTL 38999 SERIES III & IV

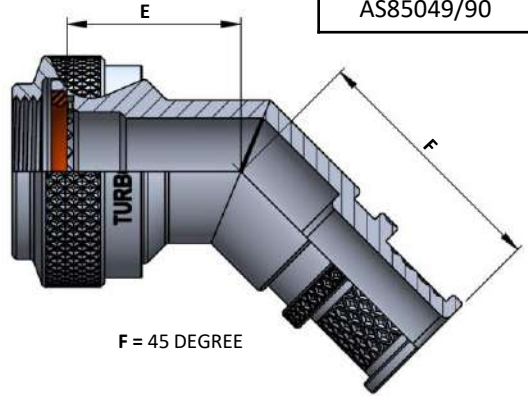
SERIES 21

MIL STYLE

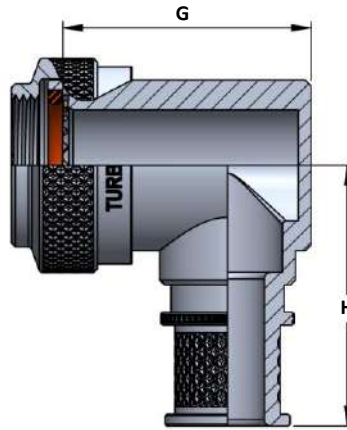
AS85049/88
AS85049/89
AS85049/90



S = STRAIGHT



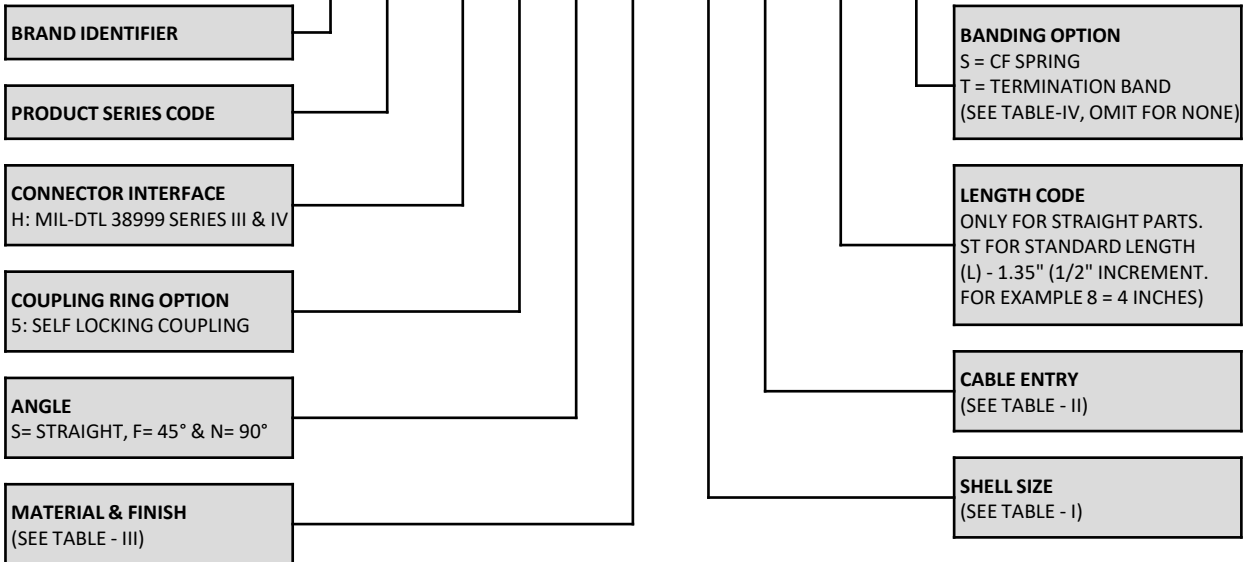
F = 45 DEGREE



N = 90 DEGREE

ORDERING INFORMATION

TB 21 - H 5 N W - 17 07 - ST - T



SERIES 21

TABLE- I BACKSHELL DIMENSIONS						
SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS			
		ØC MAX	E MAX	F MAX	G MAX	H MAX
09	M12 x 1.0	21.50	19.60	26.70	34.90	31.50
11	M15 x 1.0	24.65	20.20	27.90	36.50	33.20
13	M18 x 1.0	28.10	20.80	28.30	39.70	34.70
15	M22 x 1.0	31.50	21.20	29.20	42.80	36.20
17	M25 x 1.0	34.50	21.00	30.00	44.50	37.90
19	M28 x 1.0	37.50	22.30	30.30	47.60	39.50
21	M31 x 1.0	40.50	23.00	31.10	49.20	41.10
23	M34 x 1.0	43.50	23.70	31.50	52.40	42.60
25	M37 x 1.0	47.50	24.30	32.40	54.00	44.10

TABLE- II CABLE ENTRY					
DASH NO	ØK +0.20	ØM MAX	DASH NO	ØK +0.20	ØM MAX
2	3.20	10.41	14	22.20	29.41
3	4.70	11.91	15	23.80	31.01
4	6.30	13.51	16	25.40	32.61
5	7.90	15.11	17	27.00	34.21
6	9.50	16.71	18	28.60	35.81
7	11.10	18.31	19	30.20	37.41
8	12.70	19.91	20	31.80	39.01
9	14.20	21.41	21	33.30	40.51
10	15.80	23.01	22	35.00	42.21
11	17.40	24.61	23	36.50	43.71
12	19.00	26.21	24	38.10	45.31
13	20.60	27.81			

TABLE- III MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		



TABLE- IV BANDING OPTIONS	
S = CONSTANT FORCE SPRING	T = TERMINATION BAND
FOR SELECTING SUITABLE TERMINATION ACCESSORY, GO TO ACCESSORIES SECTION IN CATALOG	

- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.

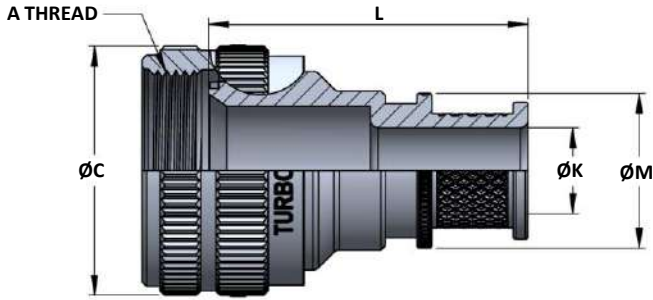


EMI/RFI BAND OR SPRING ADAPTER – SELF LOCKING COUPLING

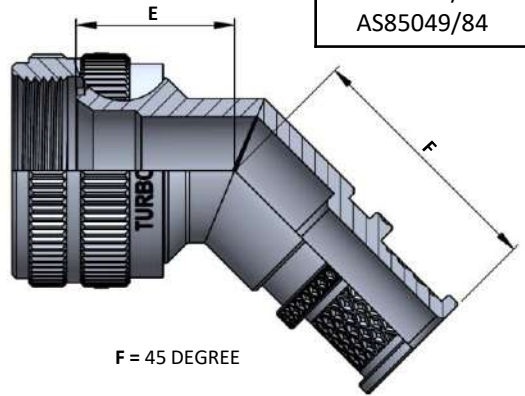
MIL-DTL-26482 SERIES II, AS50151 CRIMP & MIL-DTL-83723 SERIES III

SERIES 21

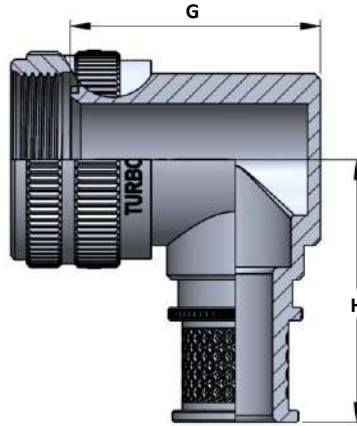
MIL STYLE
AS85049/82
AS85049/83
AS85049/84



S = STRAIGHT



F = 45 DEGREE



N = 90 DEGREE

ORDERING INFORMATION

TB 21 - A 5 N W - 16 07 - ST - T

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
A: MIL-DTL- 26482 SERIES II

COUPLING RING OPTION
5: SELF LOCKING COUPLING

ANGLE
S= STRAIGHT, F= 45° & N= 90°

MATERIAL & FINISH
(SEE TABLE - III)

BANDING OPTION
S = CF SPRING
T = TERMINATION BAND
(SEE TABLE-IV, OMIT FOR NONE)

LENGTH CODE
ONLY FOR STRAIGHT PARTS.
ST FOR STANDARD LENGTH
(L) - 1.35" (1/2" INCREMENT.
FOR EXAMPLE 8 = 4 INCHES)

CABLE ENTRY
(SEE TABLE - II)

SHELL SIZE
(SEE TABLE - I)



SERIES 21

TABLE- I BACKSHELL DIMENSIONS						
SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS			
		ØC MAX	E MAX	F MAX	G MAX	H MAX
8	1/2 - 20 UNEF	22.45	22.10	27.40	30.20	31.00
10	5/8 - 24 UNEF	25.65	22.60	27.20	32.50	33.00
12	3/4 - 20 UNEF	28.80	23.40	27.10	35.70	32.80
14	7/8 - 20 UNEF	32.00	23.90	28.90	38.90	34.40
16	1 - 20 UNEF	35.15	24.40	29.20	42.10	37.70
18	1-1/16 - 18 UNEF	38.35	24.90	30.10	43.60	37.70
20	1-3/16 - 18 UNEF	41.50	25.40	30.30	46.80	39.30
22	1-5/16 - 18 UNEF	44.70	26.20	30.60	49.20	41.60
24	1-7/16 - 18 UNEF	47.85	26.70	32.50	53.20	42.60
28	1-3/4-18 UNS	54.20	27.90	35.10	64.30	48.00

TABLE- II CABLE ENTRY					
DASH NO	ØK +0.20	ØM MAX	DASH NO	ØK +0.20	ØM MAX
2	3.20	10.41	14	22.20	29.41
3	4.70	11.91	15	23.80	31.01
4	6.30	13.51	16	25.40	32.61
5	7.90	15.11	17	27.00	34.21
6	9.50	16.71	18	28.60	35.81
7	11.10	18.31	19	30.20	37.41
8	12.70	19.91	20	31.80	39.01
9	14.20	21.41	21	33.30	40.51
10	15.80	23.01	22	35.00	42.21
11	17.40	24.61	23	36.50	43.71
12	19.00	26.21	24	38.10	45.31
13	20.60	27.81			

TABLE- III MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

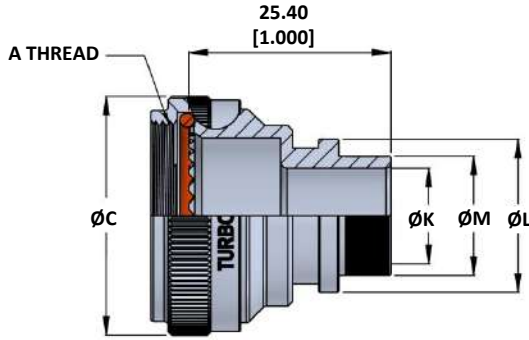


TABLE- IV BANDING OPTIONS	
S = CONSTANT FORCE SPRING	T = TERMINATION BAND
FOR SELECTING SUITABLE TERMINATION ACCESSORY, GO TO ACCESSORIES SECTION IN CATALOG	

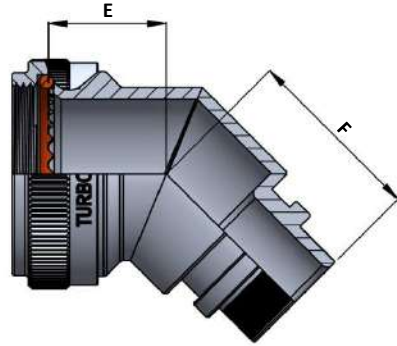
- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.



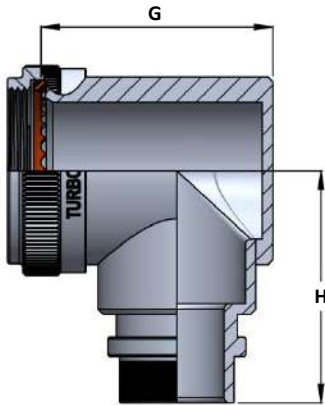
SERIES 31



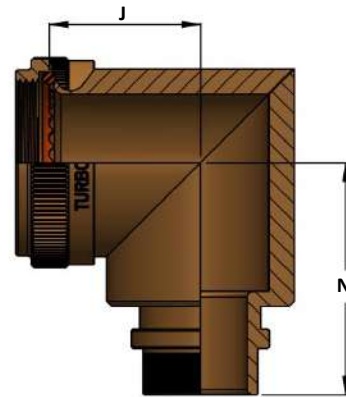
S = STRAIGHT



F = 45 DEGREE



N = 90 DEGREE



N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 31 - F 3 N W - 16 07 - 8

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
F: MIL-DTL 38999 SERIES I & II

COUPLING RING OPTION
3: FREE SPINNING COUPLING

ANGLE
S= STRAIGHT, F= 45° & N= 90°

LENGTH CODE
ONLY FOR STRAIGHT PARTS.
OMIT FOR STANDARD LENGTH
(L) – 1.00" (1/2" INCREMENT.
FOR EXAMPLE 8 = 4 INCHES)

CABLE ENTRY
(SEE TABLE - II)

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - III)

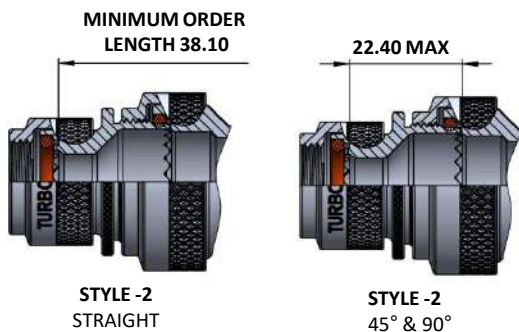
SERIES 31

TABLE- I BACKSHELL DIMENSIONS									
SHELL SIZE		A THREAD	RING DIMENSION	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
SERIES I	SERIES II		ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX	N MAX
09	08	7/16 - 28 UNEF	18.30	17.90	21.60	24.70	27.00	16.00	27.50
11	10	9/16 - 24 UNEF	21.50	18.70	22.40	27.20	28.70	18.00	29.20
13	12	11/16 - 24 UNEF	24.80	19.10	23.30	30.20	30.20	19.00	30.70
15	14	13/16 - 20 UNEF	28.10	20.00	23.70	33.20	31.70	21.00	32.20
17	16	15/16 - 20 UNEF	31.10	20.70	24.50	36.70	33.40	22.50	33.90
19	18	1-1/16 - 18 UNEF	34.30	21.10	24.80	40.70	35.00	24.00	35.50
21	20	1-3/16 - 18 UNEF	37.60	21.90	25.60	43.20	36.60	26.00	37.10
23	22	1-5/16 - 18 UNEF	40.80	22.30	26.50	46.20	38.10	27.00	38.60
25	24	1-7/16 - 18 UNEF	44.00	23.20	26.90	49.20	39.60	29.00	40.10

TABLE- II CABLE ENTRY			
DASH NO	ØK +0.20	ØM MAX	ØL MAX
4	6.30	9.64	14.14
5	7.90	11.24	15.74
6	9.50	12.84	17.34
7	11.10	14.44	18.94
8	12.70	16.04	20.54
10	15.80	19.14	23.64
12	19.00	22.34	26.84
14	22.20	25.54	30.04
16	25.40	28.74	33.24
18	28.60	31.94	36.44
20	31.80	35.14	39.64
22	35.00	38.34	42.84
24	38.10	41.44	45.94

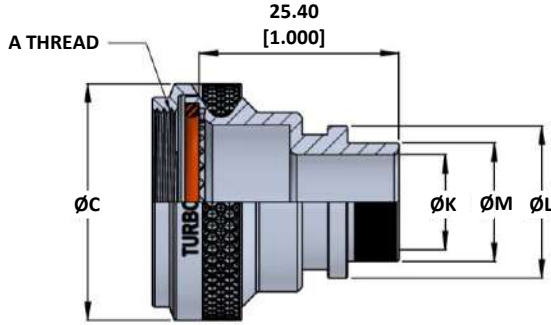
TABLE- III MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

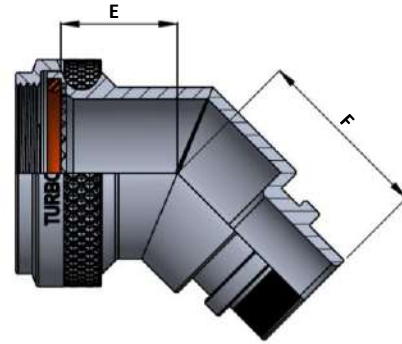


- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.

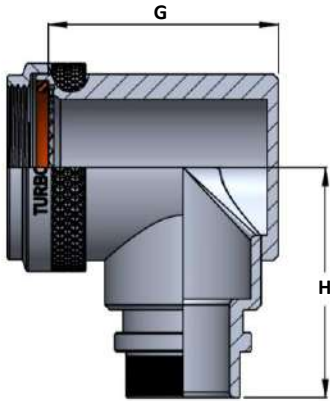
SERIES 31



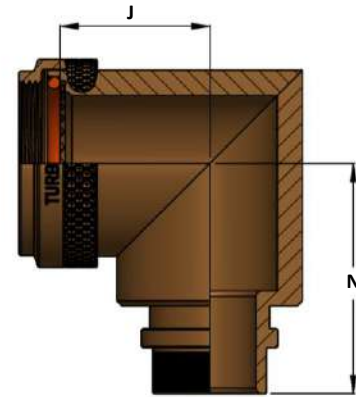
S = STRAIGHT



F = 45 DEGREE



N = 90 DEGREE



N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 31 - H 3 N W - 17 07 - 8

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
H: MIL-DTL 38999 SERIES III & IV

COUPLING RING OPTION
3: FREE SPINNING COUPLING

ANGLE
S= STRAIGHT, F= 45° & N= 90°

LENGTH CODE
ONLY FOR STRAIGHT PARTS.
MIT FOR STANDARD LENGTH
(L) – 1.00" (1/2" INCREMENT.
FOR EXAMPLE 8 = 4 INCHES)

CABLE ENTRY
(SEE TABLE - II)

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - III)

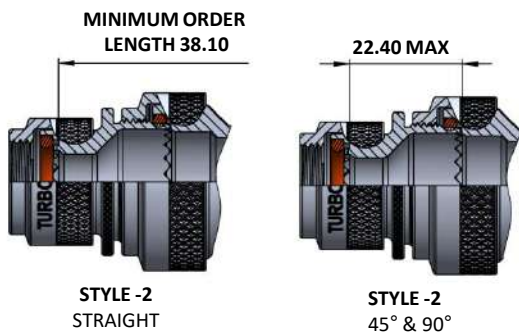
SERIES 31

TABLE- I BACKSHELL DIMENSIONS								
SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
			ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX
09	M12 x 1.0	19.00	14.10	27.20	27.70	27.40	17.40	27.40
11	M15 x 1.0	21.80	14.90	28.10	28.70	29.20	18.80	29.20
13	M18 x 1.0	25.40	15.50	28.50	33.20	30.70	20.60	30.70
15	M22 x 1.0	29.30	16.50	29.50	39.20	32.20	22.70	32.20
17	M25 x 1.0	32.00	17.10	30.30	42.20	33.90	24.30	33.90
19	M28 x 1.0	35.40	17.80	31.10	46.70	35.50	26.40	35.50
21	M31 x 1.0	39.30	18.10	31.40	49.70	37.10	27.10	37.10
23	M34 x 1.0	41.55	18.70	31.70	52.20	38.60	28.60	38.60
25	M37 x 1.0	46.12	19.40	32.60	53.70	40.10	30.10	40.10

TABLE- II CABLE ENTRY			
DASH NO	ØK +0.20	ØM MAX	ØL MAX
4	6.30	9.64	14.14
5	7.90	11.24	15.74
6	9.50	12.84	17.34
7	11.10	14.44	18.94
8	12.70	16.04	20.54
10	15.80	19.14	23.64
12	19.00	22.34	26.84
14	22.20	25.54	30.04
16	25.40	28.74	33.24
18	28.60	31.94	36.44
20	31.80	35.14	39.64
22	35.00	38.34	42.84
24	38.10	41.44	45.94

TABLE- III MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

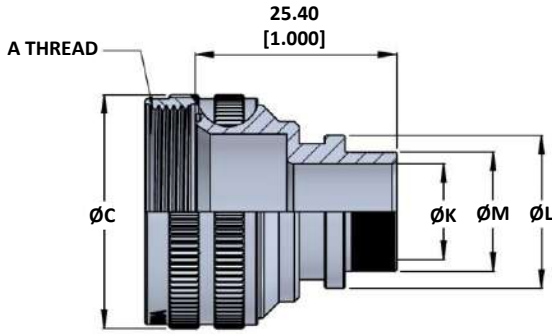
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS



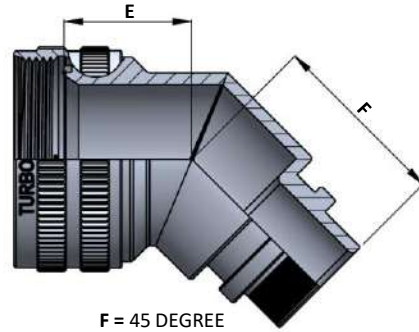
- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.



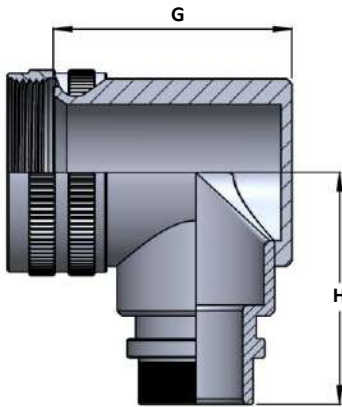
SERIES 31



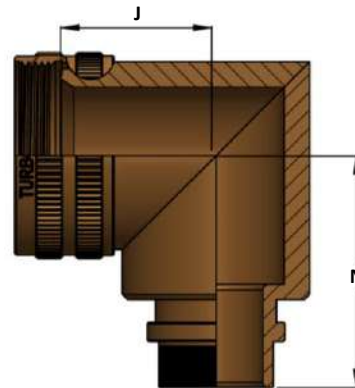
S = STRAIGHT



F = 45 DEGREE



N = 90 DEGREE



N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 31 - A 3 N W - 16 07 - 8

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
A: MIL-DTL- 26482 SERIES II

COUPLING RING OPTION
3: FREE SPINNING COUPLING

ANGLE
S= STRAIGHT, F= 45° & N= 90°

LENGTH CODE
ONLY FOR STRAIGHT PARTS.
OMIT FOR STANDARD LENGTH
(L) – 1.00" (1/2" INCREMENT.
FOR EXAMPLE 8 = 4 INCHES)

CABLE ENTRY
(SEE TABLE - II)

SHELL SIZE
(SEE TABLE - I)

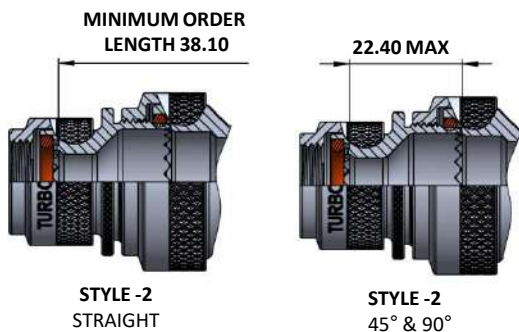
MATERIAL & FINISH
(SEE TABLE - III)

SERIES 31

TABLE- I BACKSHELL DIMENSIONS								
SHELL SIZE	A THREAD	RING DIMENSION ØC MAX	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
			E MAX	F MAX	G MAX	H MAX	J MAX	N MAX
08	1/2 - 20 UNEF	16.00	18.10	28.30	25.70	27.00	18.50	27.20
10	5/8 - 24 UNEF	18.70	18.30	29.00	27.70	28.70	19.80	29.00
12	3/4 - 20 UNEF	22.10	18.80	29.50	30.20	29.40	21.40	30.50
14	7/8 - 20 UNEF	25.20	19.60	30.50	31.70	31.10	22.50	32.00
16	1 - 20 UNEF	28.40	20.50	31.20	35.20	33.40	24.00	33.70
18	1-1/16 - 18 UNEF	31.10	20.70	32.00	38.20	33.50	25.00	33.70
20	1-3/16 - 18 UNEF	34.30	21.60	32.40	43.20	35.10	26.70	35.10
22	1-5/16 - 18 UNEF	37.50	21.80	31.60	45.20	36.70	28.20	36.70
24	1-7/16 - 18 UNEF	40.60	23.30	34.00	46.20	38.20	29.70	38.20

TABLE- II CABLE ENTRY			
DASH NO	ØK +0.20	ØM MAX	ØL MAX
4	6.30	9.64	14.14
5	7.90	11.24	15.74
6	9.50	12.84	17.34
7	11.10	14.44	18.94
8	12.70	16.04	20.54
10	15.80	19.14	23.64
12	19.00	22.34	26.84
14	22.20	25.54	30.04
16	25.40	28.74	33.24
18	28.60	31.94	36.44
20	31.80	35.14	39.64
22	35.00	38.34	42.84
24	38.10	41.44	45.94

TABLE- III MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		



- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.

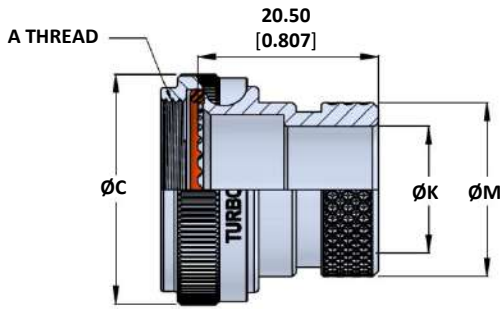


SHRINK BOOT ADAPTER – FREE SPINNING COUPLING

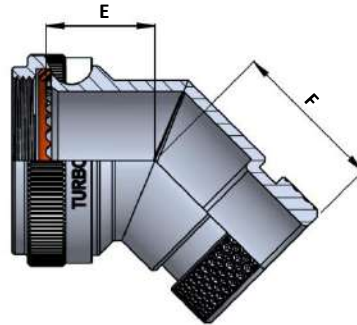
SERIES 41

MIL STYLE

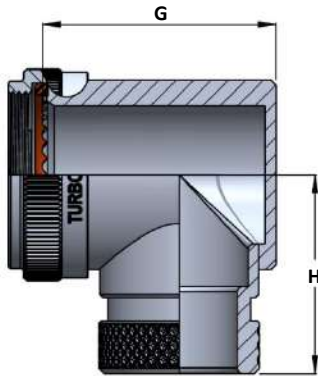
AS85049/62



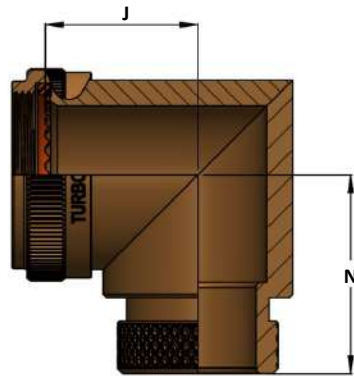
S = STRAIGHT



F = 45 DEGREE



N = 90 DEGREE



N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 41 - F 3 S W - 16 - DH

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
F: MIL-DTL 38999 SERIES I & II

COUPLING RING OPTION
3: FREE SPINNING

DRAIN HOLES OPTION
(OMIT FOR NONE)

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - III)

ANGLE
S= STRAIGHT, F= 45° & N= 90°



SERIES 41

TABLE - I BACKSHELL DIMENSIONS

SHELL SIZE		A THREAD	RING DIMENSION	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
SERIES I	SERIES II		ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX	N MAX
09	08	7/16 - 28 UNEF	18.30	17.90	18.60	24.70	26.00	16.00	26.00
11	10	9/16 - 24 UNEF	21.50	18.70	19.40	27.20	27.80	18.00	27.80
13	12	11/16 - 24 UNEF	24.80	19.10	20.30	30.20	39.20	19.00	39.20
15	14	13/16 - 20 UNEF	28.10	20.00	20.60	33.20	30.70	21.00	30.70
17	16	15/16 - 20 UNEF	31.10	20.70	21.40	36.70	32.40	22.50	32.40
19	18	1-1/16 - 18 UNEF	34.30	21.10	21.80	40.70	34.00	24.00	34.00
21	20	1-3/16 - 18 UNEF	37.60	21.90	22.60	43.20	356.00	26.00	356.00
23	22	1-5/16 - 18 UNEF	40.80	22.30	23.50	46.20	37.20	27.00	37.20
25	24	1-7/16 - 18 UNEF	44.00	23.20	23.90	49.20	38.60	29.00	38.60

TABLE - II CABLE ENTRY

SHELL SIZE	ENTRY DIMENSIONS	
	ØK MIN	ØM MAX
09/08	6.35	13.54
11/10	9.52	15.37
13/12	12.70	19.66
15/14	15.88	21.29
17/16	19.05	24.46
19/18	20.62	26.47
21/20	23.80	30.91
23/22	26.97	34.42
25/24	30.18	36.65

TABLE - III MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

➤ All dimensions are given in mm



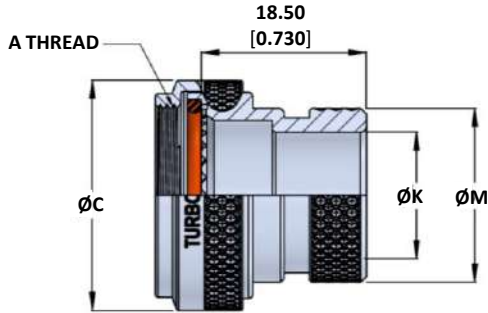
SHRINK BOOT ADAPTER – FREE SPINNING COUPLING

MIL-DTL 38999 SERIES III & IV

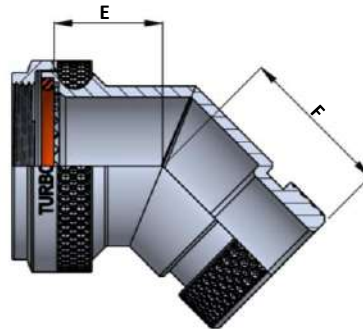
SERIES 41

MIL STYLE

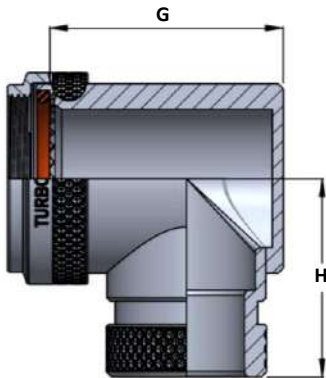
AS85049/69



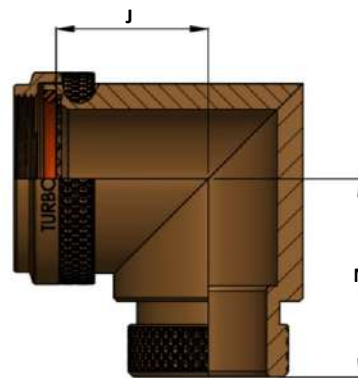
S = STRAIGHT



F = 45 DEGREE



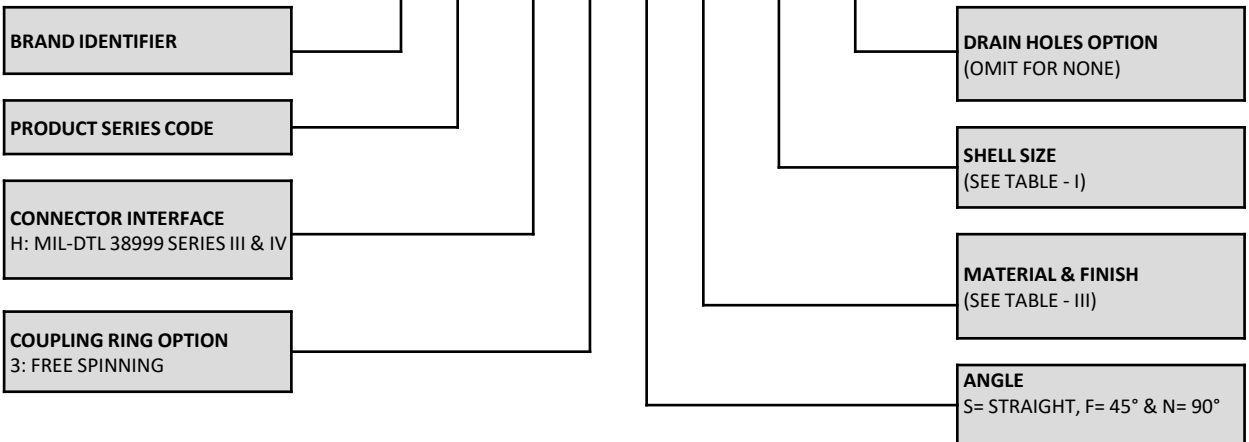
N = 90 DEGREE



N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 41 - H 3 S W - 17 - DH



SERIES 41

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
			ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX
09	M12 x 1.0	19.00	14.10	18.6	27.70	26.50	17.40	26.50
11	M15 x 1.0	21.80	14.90	19.40	28.70	28.30	18.80	28.30
13	M18 x 1.0	25.40	15.50	20.30	33.20	29.70	20.60	29.70
15	M22 x 1.0	29.30	16.50	20.60	39.20	31.20	22.70	31.20
17	M25 x 1.0	32.00	17.10	21.40	42.20	32.90	24.30	32.90
19	M28 x 1.0	35.40	17.80	21.80	46.70	34.50	26.40	34.50
21	M31 x 1.0	39.30	18.10	22.60	49.70	36.10	27.10	36.10
23	M34 x 1.0	41.55	18.70	23.50	52.20	37.70	28.60	37.70
25	M37 x 1.0	46.12	19.40	23.90	53.70	39.10	30.10	39.10

TABLE- II CABLE ENTRY

SHELL SIZE	ENTRY DIMENSIONS	
	ØK MIN	ØM MAX
09	6.35	13.54
11	9.52	15.37
13	12.70	19.66
15	15.88	21.29
17	19.05	24.46
19	20.62	26.47
21	23.80	30.91
23	26.97	34.42
25	30.18	36.65

TABLE- III MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

➤ All dimensions are given in mm



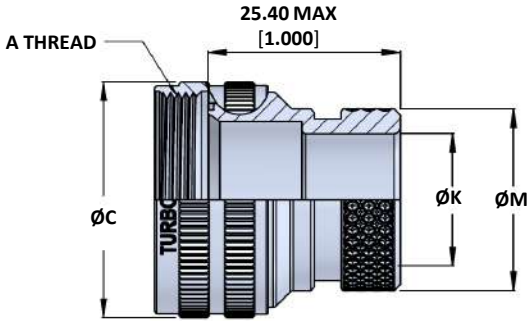
SHRINK BOOT ADAPTER – FREE SPINNING COUPLING

MIL-DTL-26482 SERIES II, AS50151 CRIMP & MIL-DTL-83723 SERIES III

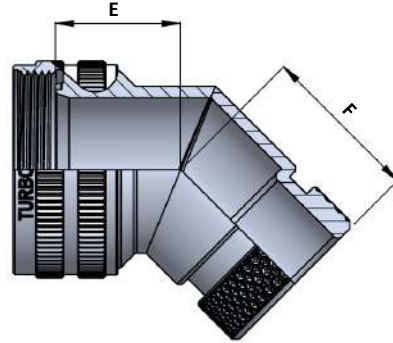
SERIES 41

MIL STYLE

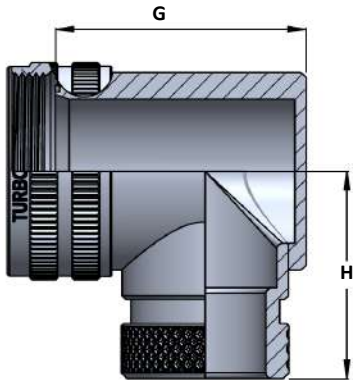
AS85049/60-1



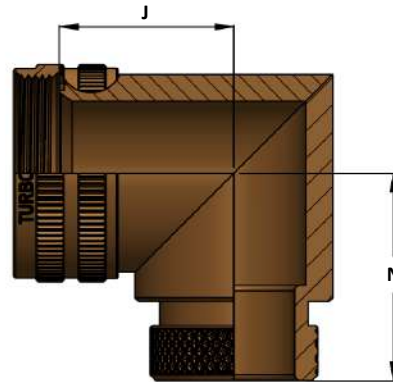
S = STRAIGHT



F = 45 DEGREE



N = 90 DEGREE



N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 41 - A 3 S W - 16 - DH

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
A: MIL-DTL- 26482 SERIES II

COUPLING RING OPTION
3: FREE SPINNING

DRAIN HOLES OPTION
(OMIT FOR NONE)

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - III)

ANGLE
S= STRAIGHT, F= 45° & N= 90°



SERIES 41

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
		ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX	N MAX
03	9/16-24 UNEF	17.00	18.30	18.10	27.60	26.40	18.50	26.40
08	1/2 - 20 UNEF	16.00	18.10	18.10	25.70	26.00	18.50	26.00
10	5/8 - 24 UNEF	18.70	18.30	19.00	27.70	27.70	19.80	27.70
12	3/4 - 20 UNEF	22.10	18.80	20.10	30.20	29.20	21.40	29.20
14	7/8 - 20 UNEF	25.20	19.60	20.40	31.70	30.70	22.50	30.70
16	1 - 20 UNEF	28.40	20.50	21.20	35.20	32.40	24.00	32.40
18	1-1/16 - 18 UNEF	31.10	20.70	21.50	38.20	32.40	25.00	32.40
20	1-3/16 - 18 UNEF	34.30	21.60	22.10	43.20	34.00	26.70	34.00
22	1-5/16 - 18 UNEF	37.50	21.80	23.00	45.20	35.60	28.20	35.60
24	1-7/16 - 18 UNEF	40.60	23.30	23.40	46.20	37.10	29.70	37.10
28	1-3/4-18 UNS	50.20	24.80	26.20	55.40	41.80	32.60	41.80
32	2-18 UNS	56.50	26.50	27.40	63.50	45.10	34.50	45.10
36	2-1/4-16 UN	62.90	27.70	28.60	68.40	48.30	37.00	48.30
40	2-1/2-16 UN	69.20	30.10	29.90	74.40	51.30	40.30	51.30
44	2-3/4-16 UN	75.60	31.60	30.30	80.70	54.50	41.80	54.50
48	3-16UN	81.90	32.80	31.50	87.00	57.60	41.80	57.60
61	1-1/2-18 UNEF	42.20	23.60	23.60	49.00	38.60	28.00	38.60

TABLE- II CABLE ENTRY

SHELL SIZE	ENTRY DIMENSIONS	
	ØK MIN	ØM MAX
03	6.35	13.54
08	6.35	13.54
10	9.52	15.37
12	12.70	19.66
14	15.88	21.29
16	19.05	24.46
18	20.62	26.47
20	23.80	30.91
22	26.97	34.42
24	30.18	36.65
28	34.77	43.41
32	41.02	48.74
36	46.48	55.09
40	51.94	61.01
44	58.42	67.49
48	64.77	73.84
61	30.10	38.80

TABLE- III MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

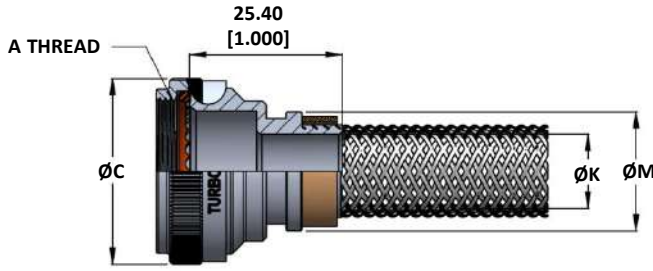


➤ All dimensions are given in mm

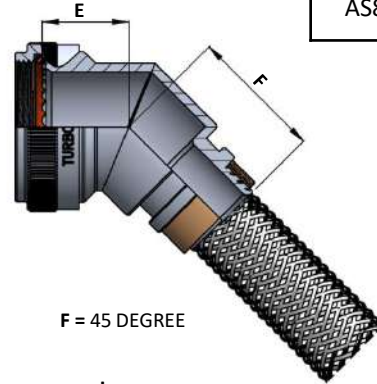
SERIES 51

MIL STYLE

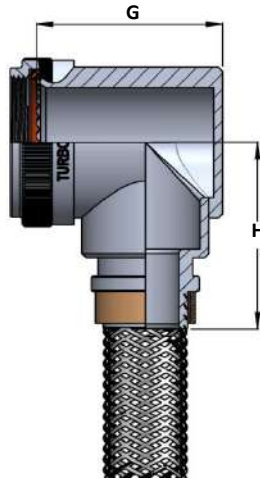
AS85049/112
AS85049/114



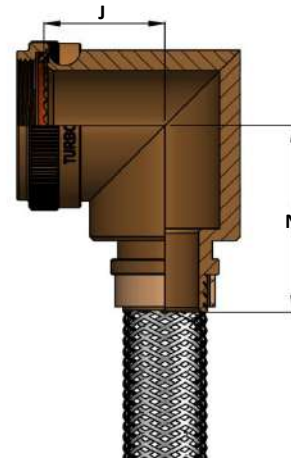
S = STRAIGHT



F = 45 DEGREE



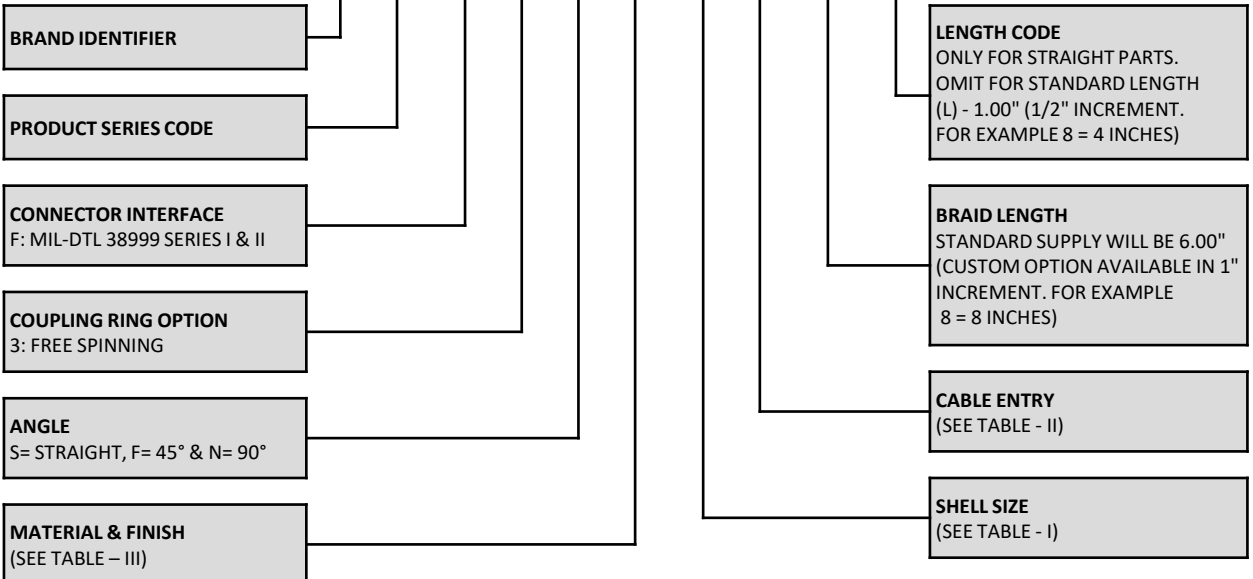
N = 90 DEGREE



N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 51 - F 3 N W - 16 07 - 08 - 6



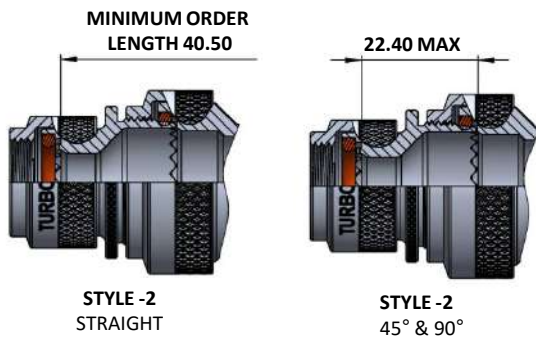
SERIES 51

TABLE- I BACKSHELL DIMENSIONS									
SHELL SIZE		A THREAD	RING DIMENSION	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
SERIES I	SERIES II		ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX	N MAX
09	08	7/16 - 28 UNEF	18.30	17.90	18.10	24.70	25.00	16.00	25.00
11	10	9/16 - 24 UNEF	21.50	18.70	19.20	27.20	26.70	18.00	26.70
13	12	11/16 - 24 UNEF	24.80	19.10	19.60	30.20	28.20	19.00	28.20
15	14	13/16 - 20 UNEF	28.10	20.00	20.50	33.20	29.70	21.00	29.70
17	16	15/16 - 20 UNEF	31.10	20.70	21.30	36.70	31.40	22.50	31.40
19	18	1-1/16 - 18 UNEF	34.30	21.10	21.80	40.70	33.00	24.00	33.00
21	20	1-3/16 - 18 UNEF	37.60	21.90	22.70	43.20	34.60	26.00	34.60
23	22	1-5/16 - 18 UNEF	40.80	22.30	23.00	46.20	36.10	27.00	36.10
25	24	1-7/16 - 18 UNEF	44.00	23.20	23.90	49.20	37.60	29.00	37.60

TABLE- II CABLE ENTRY					
DASH NO	ØK +0.20	ØM MAX	DASH NO	ØK +0.20	ØM MAX
3	4.70	12.40	14	22.20	29.90
4	6.30	14.00	15	23.80	31.50
5	7.90	15.60	16	25.40	33.10
6	9.50	17.20	17	27.00	34.70
7	11.10	18.80	18	28.60	36.30
8	12.70	20.40	19	30.20	37.90
9	14.20	21.90	20	31.80	39.50
10	15.80	23.50	21	33.30	41.00
11	17.40	25.10	22	35.00	42.70
12	19.00	26.70	23	36.50	44.20
13	20.60	28.30	24	38.10	45.80

TABLE- III MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS



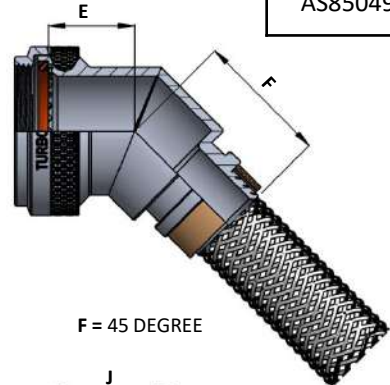
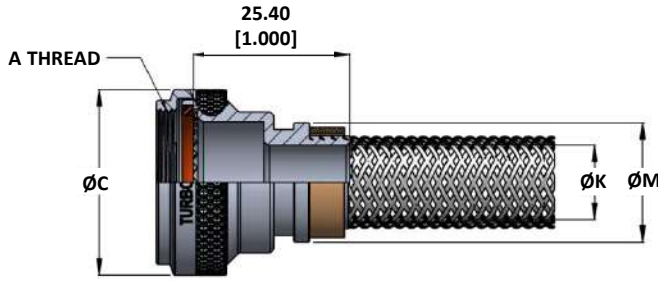
- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.



SERIES 51

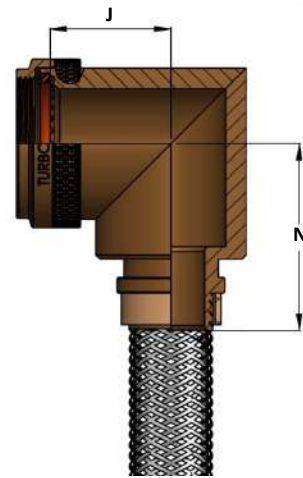
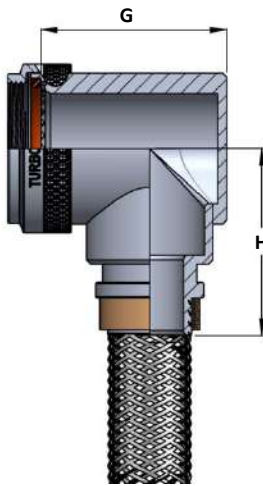
MIL STYLE

AS85049/115
AS85049/117



S = STRAIGHT

F = 45 DEGREE

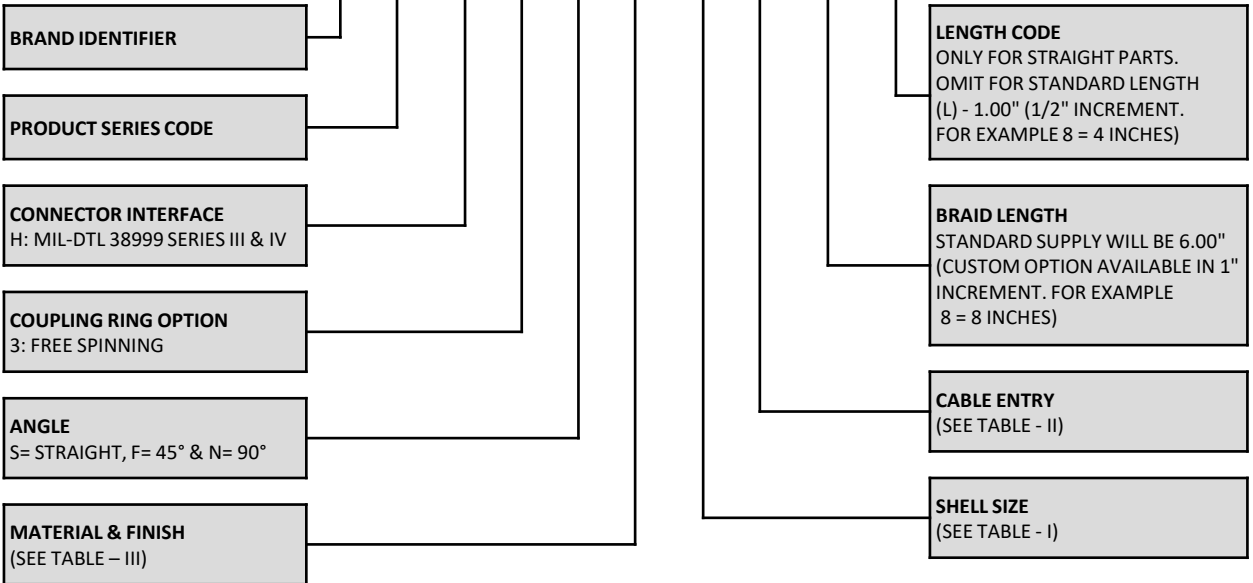


N = 90 DEGREE

N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 51 - H 3 N W - 17 07 - 08 - 6



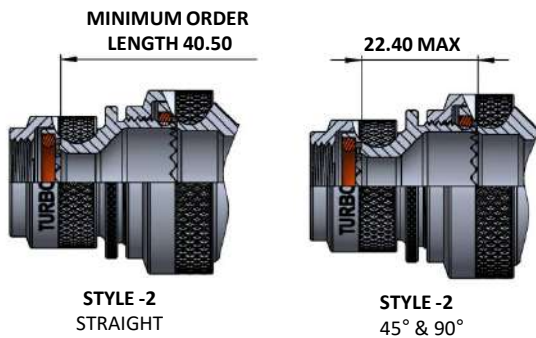
SERIES 51

TABLE- I BACKSHELL DIMENSIONS								
SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
			ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX
09	M12 x 1.0	19.00	14.10	18.10	27.70	25.00	17.40	25.00
11	M15 x 1.0	21.80	14.90	19.20	28.70	26.70	18.80	26.70
13	M18 x 1.0	25.40	15.50	19.60	33.20	28.20	20.60	28.20
15	M22 x 1.0	29.30	16.50	20.50	39.20	29.70	22.70	29.70
17	M25 x 1.0	32.00	17.10	21.30	42.20	31.40	24.30	31.40
19	M28 x 1.0	35.40	17.80	21.80	46.70	33.00	26.40	33.00
21	M31 x 1.0	39.30	18.10	22.70	49.70	34.60	27.10	34.60
23	M34 x 1.0	41.55	18.70	23.00	52.20	36.10	28.60	36.10
25	M37 x 1.0	46.12	19.40	23.90	53.70	37.60	30.10	37.60

TABLE- II CABLE ENTRY					
DASH NO	ØK +0.20	ØM MAX	DASH NO	ØK +0.20	ØM MAX
3	4.70	12.40	14	22.20	29.90
4	6.30	14.00	15	23.80	31.50
5	7.90	15.60	16	25.40	33.10
6	9.50	17.20	17	27.00	34.70
7	11.10	18.80	18	28.60	36.30
8	12.70	20.40	19	30.20	37.90
9	14.20	21.90	20	31.80	39.50
10	15.80	23.50	21	33.30	41.00
11	17.40	25.10	22	35.00	42.70
12	19.00	26.70	23	36.50	44.20
13	20.60	28.30	24	38.10	45.80

TABLE- III MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS



- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.



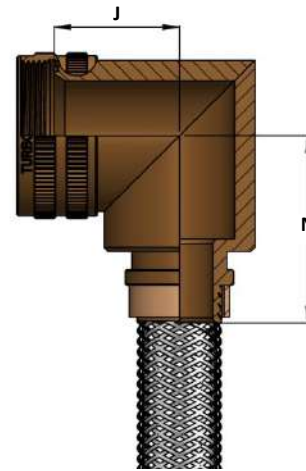
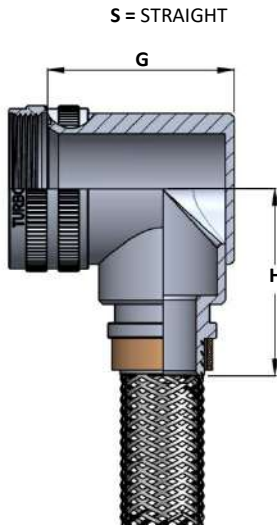
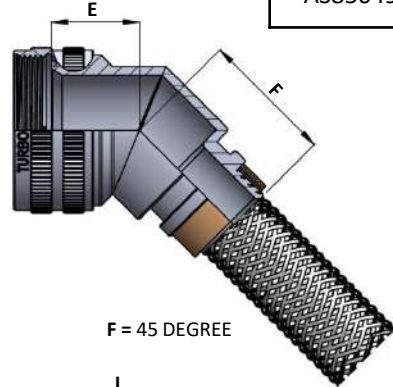
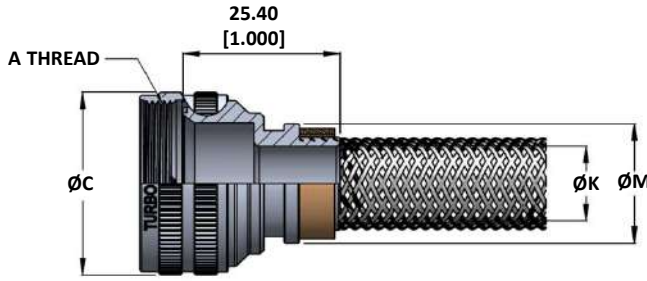
EMI/RFI SHIELD SOCK SHRINK BOOT ADAPTER -FREE SPINNING COUPLING

MIL-DTL-26482 SERIES II, AS50151 CRIMP & MIL-DTL-83723 SERIES III

SERIES 51

MIL STYLE

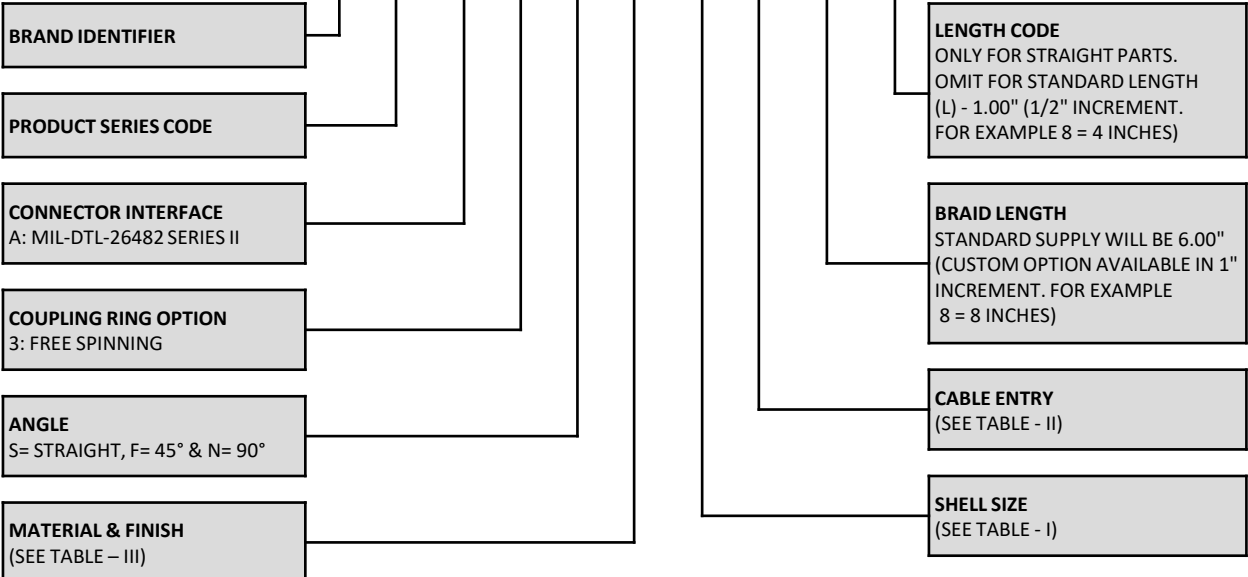
AS85049/109
AS85049/111



N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 51 - A 3 N W - 16 07 - 08 - 6

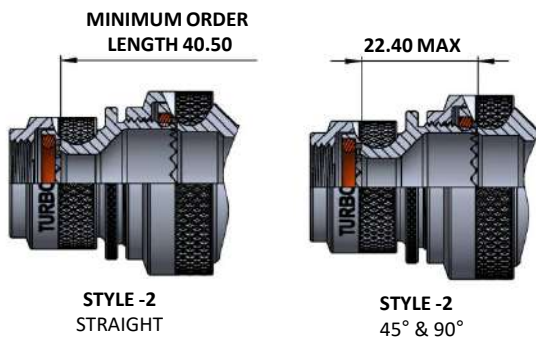


SERIES 51

TABLE- I BACKSHELL DIMENSIONS								
SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
		ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX	N MAX
08	1/2 - 20 UNEF	16.00	18.10	17.90	25.70	25.80	18.50	25.80
10	5/8 - 24 UNEF	18.70	18.30	18.20	27.70	26.50	19.80	26.50
12	3/4 - 20 UNEF	22.10	18.80	18.60	30.20	27.50	21.40	27.50
14	7/8 - 20 UNEF	25.20	19.60	19.40	31.70	29.10	22.50	29.10
16	1 - 20 UNEF	28.40	20.50	20.20	35.20	31.20	24.00	31.20
18	1-1/16 - 18 UNEF	31.10	20.70	20.50	38.20	31.20	25.00	31.20
20	1-3/16 - 18 UNEF	34.30	21.60	21.30	43.20	33.00	26.70	33.00
22	1-5/16 - 18 UNEF	37.50	21.80	21.60	45.20	34.60	28.20	34.60
24	1-7/16 - 18 UNEF	40.60	23.30	23.00	46.20	36.10	29.70	36.10

TABLE- II CABLE ENTRY					
DASH NO	ØK +0.20	ØM MAX	DASH NO	ØK +0.20	ØM MAX
3	4.70	12.40	14	22.20	29.90
4	6.30	14.00	15	23.80	31.50
5	7.90	15.60	16	25.40	33.10
6	9.50	17.20	17	27.00	34.70
7	11.10	18.80	18	28.60	36.30
8	12.70	20.40	19	30.20	37.90
9	14.20	21.90	20	31.80	39.50
10	15.80	23.50	21	33.30	41.00
11	17.40	25.10	22	35.00	42.70
12	19.00	26.70	23	36.50	44.20
13	20.60	28.30	24	38.10	45.80

TABLE- III MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		



- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.

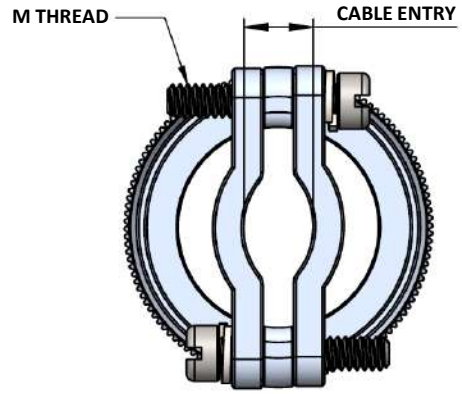
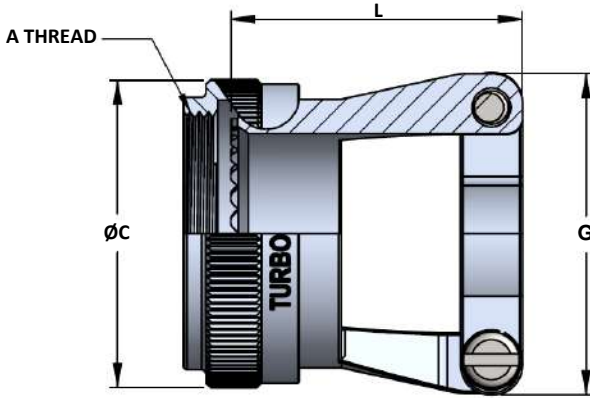


STRAIN RELIEF STRAIGHT ADAPTER - FREE SPINNING COUPLING

SERIES 54

MIL STYLE

AS85049/49-2



ORDERING INFORMATION

TB 54 - F 3 W - 16

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
F: MIL-DTL 38999 SERIES I & II

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
3: FREE SPINNING



SERIES 54

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE		A THREAD	RING DIMENSION	L MAX	G MAX	CABLE ENTRY		M THREAD
SERIES I	SERIES II		ØC MAX			MIN	MAX	
09	08	7/16 - 28 UNEF	18.30	21.80	21.60	2.49	5.94	6-32
11	10	9/16 - 24 UNEF	21.50	21.80	22.90	3.89	5.94	6-32
13	12	11/16 - 24 UNEF	24.80	23.00	27.90	4.83	8.33	6-32
15	14	13/16 - 20 UNEF	28.10	23.00	29.20	6.60	11.61	6-32
17	16	15/16 - 20 UNEF	31.10	25.00	33.00	7.19	15.60	6-32
19	18	1-1/16 - 18 UNEF	34.30	28.00	38.10	8.26	16.10	8-32
21	20	1-3/16 - 18 UNEF	37.60	29.50	40.60	8.71	17.73	8-32
23	22	1-5/16 - 18 UNEF	40.80	33.00	43.20	9.68	20.90	8-32
25	24	1-7/16 - 18 UNEF	44.00	36.00	45.70	10.62	21.67	8-32

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

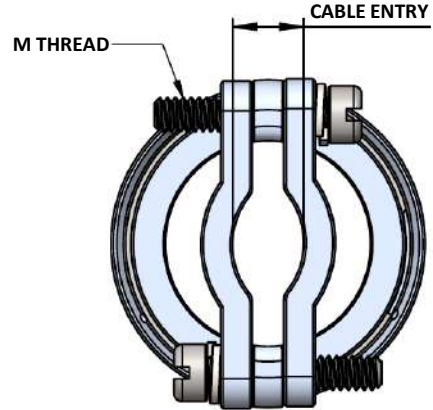
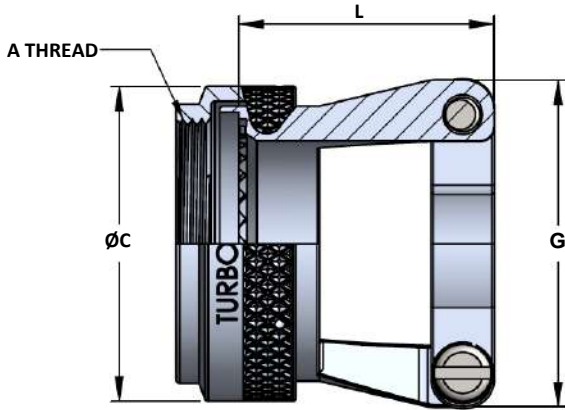
- All dimensions are given in mm
- Screws with integrated washers will be supplied.
- Cable entry is defined as the accommodation entry of the wire bundle or cable.

STRAIN RELIEF STRAIGHT ADAPTER - FREE SPINNING COUPLING

SERIES 54

MIL STYLE

AS85049/38



ORDERING INFORMATION

TB 54 - H 3 W - 17

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
H: MIL-DTL 38999 SERIES III & IV

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
3: FREE SPINNING



SERIES 54

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	L MAX	G MAX	CABLE ENTRY		M THREAD
		ØC MAX			MIN	MAX	
09	M12 x 1.0	19.00	21.80	21.60	2.49	5.94	6-32
11	M15 x 1.0	21.80	21.80	22.90	3.89	5.94	6-32
13	M18 x 1.0	25.40	23.00	27.90	4.83	8.33	6-32
15	M22 x 1.0	29.30	23.00	29.20	6.60	11.61	6-32
17	M25 x 1.0	32.00	25.00	33.00	7.19	15.60	6-32
19	M28 x 1.0	35.40	28.00	38.10	8.26	16.10	8-32
21	M31 x 1.0	39.30	29.50	40.60	8.71	17.73	8-32
23	M34 x 1.0	41.55	33.00	43.20	9.68	20.90	8-32
25	M37 x 1.0	46.12	36.00	45.70	10.62	21.67	8-32

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

- All dimensions are given in mm
- Screws with integrated washers will be supplied.
- Cable entry is defined as the accommodation entry of the wire bundle or cable.

STRAIN RELIEF STRAIGHT ADAPTER - FREE SPINNING COUPLING

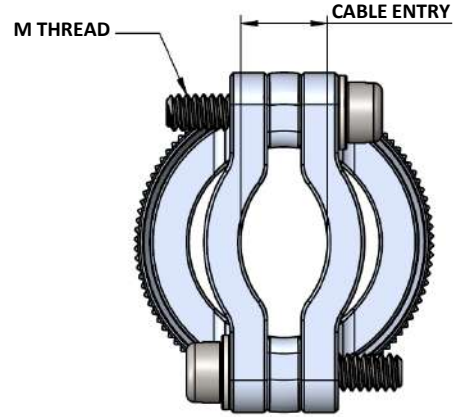
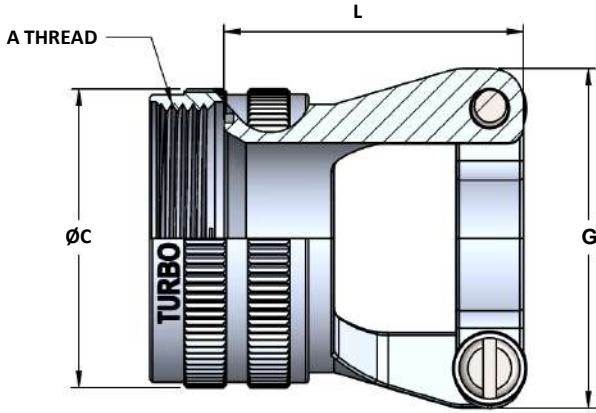
MIL-DTL-26482 SERIES II, AS50151 CRIMP & MIL-DTL-83723 SERIES III

62

SERIES 54

MIL STYLE

AS85049/52



ORDERING INFORMATION

TB 54 - A 3 W - 16

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
A: MIL-DTL- 26482 SERIES II

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
3: FREE SPINNING



SERIES 54

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	L MAX	G MAX	CABLE ENTRY		M THREAD
		ØC MAX			MIN	MAX	
03	9/16-24 UNEF	17.00	16.00	19.90	3.20	5.20	6-32
08	1/2 - 20 UNEF	16.00	16.00	19.90	3.20	5.20	6-32
10	5/8 - 24 UNEF	18.70	18.80	21.90	4.70	7.30	6-32
12	3/4 - 20 UNEF	22.10	21.84	25.50	7.40	10.60	6-32
14	7/8 - 20 UNEF	25.20	21.84	26.90	8.90	12.10	6-32
16	1 - 20 UNEF	28.40	25.15	33.90	12.70	15.90	6-32
18	1-1/16 - 18 UNEF	31.10	31.50	37.20	13.20	17.90	8-32
20	1-3/16 - 18 UNEF	34.30	34.54	39.90	14.80	21.10	8-32
22	1-5/16 - 18 UNEF	37.50	37.85	42.90	16.40	24.30	8-32
24	1-7/16 - 18 UNEF	40.60	40.89	45.50	17.90	27.50	8-32
28	1-3/4-18UNS	50.20	44.70	51.70	19.10	30.10	8-32
32	2-18 UNS	56.50	49.53	60.60	22.20	31.80	1/4-20
36	2-1/4-16 UN	62.90	59.18	63.40	23.80	34.90	1/4-20
40	2-1/2-16 UN	69.20	63.75	65.20	23.80	38.10	1/4-20
44	2-3/4-16 UN	75.60	73.41	72.60	30.20	44.50	1/4-20
48	3-16UN	81.90	82.80	84.90	33.30	47.60	1/4-20
61	1-1/2-18 UNEF	42.20	40.89	45.10	17.90	27.50	8-32

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

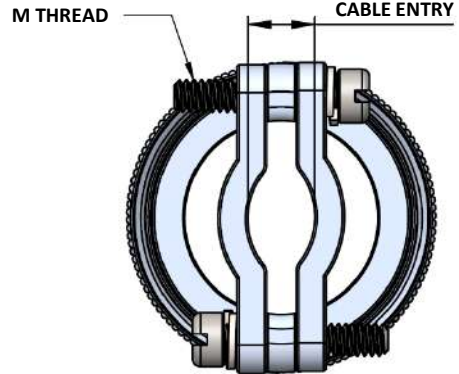
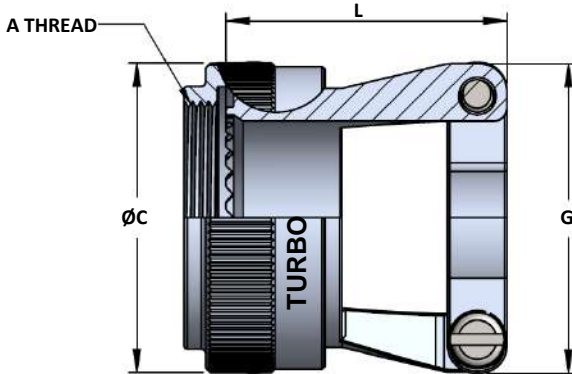
- All dimensions are given in mm
- Screws with integrated washers will be supplied.
- Cable entry is defined as the accommodation entry of the wire bundle or cable.

STRAIN RELIEF STRAIGHT ADAPTER - SELF LOCKING COUPLING

SERIES 54

MIL STYLE

AS85049/49-2



ORDERING INFORMATION

TB 54 - F 5 W - 16

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
F: MIL-DTL 38999 SERIES I & II

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
5: SELF LOCKING COUPLING



SERIES 54

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE		A THREAD	RING DIMENSION	L MAX	G MAX	CABLE ENTRY		M THREAD
SERIES I	SERIES II		ØC MAX			MIN	MAX	
09	08	7/16 - 28 UNEF	21.80	23.10	21.60	2.49	5.94	6-32
11	10	9/16 - 24 UNEF	25.00	23.10	22.90	3.89	5.94	6-32
13	12	11/16 - 24 UNEF	29.35	25.70	27.90	4.83	8.33	6-32
15	14	13/16 - 20 UNEF	32.54	26.90	29.20	6.60	11.61	6-32
17	16	15/16 - 20 UNEF	35.70	29.50	33.00	7.19	15.60	6-32
19	18	1-1/16 - 18 UNEF	38.50	35.80	38.10	8.26	16.10	8-32
21	20	1-3/16 - 18 UNEF	41.65	38.40	40.60	8.71	17.73	8-32
23	22	1-5/16 - 18 UNEF	44.85	42.20	43.20	9.68	20.90	8-32
25	24	1-7/16 - 18 UNEF	48.00	44.70	45.70	10.62	21.67	8-32

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

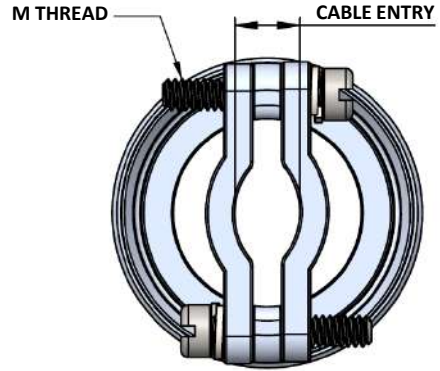
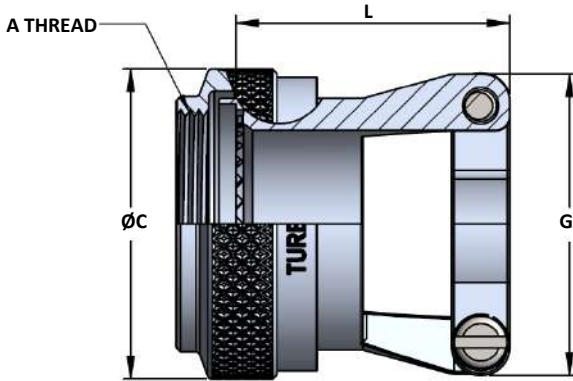
- All dimensions are given in mm
- Screws with integrated washers will be supplied.
- Cable entry is defined as the accommodation entry of the wire bundle or cable.

STRAIN RELIEF STRAIGHT ADAPTER - SELF LOCKING COUPLING

SERIES 54

MIL STYLE

AS85049/38



ORDERING INFORMATION

TB 54 - H 5 W - 17

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
H: MIL-DTL 38999 SERIES III & IV

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
5: SELF LOCKING COUPLING



SERIES 54

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	L MAX	G MAX	CABLE ENTRY		M THREAD
		ØC MAX			MIN	MAX	
09	M12 x 1.0	21.50	23.50	21.60	2.49	5.94	6-32
11	M15 x 1.0	24.65	23.50	22.90	3.89	5.94	6-32
13	M18 x 1.0	28.10	26.20	27.90	4.83	8.33	6-32
15	M22 x 1.0	31.50	27.70	29.20	6.60	11.61	6-32
17	M25 x 1.0	34.50	30.00	33.00	7.19	15.60	6-32
19	M28 x 1.0	37.50	33.50	38.10	8.26	16.10	8-32
21	M31 x 1.0	40.50	35.00	40.60	8.71	17.73	8-32
23	M34 x 1.0	43.50	38.00	43.20	9.68	20.90	8-32
25	M37 x 1.0	47.50	40.50	45.70	10.62	21.67	8-32

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

- All dimensions are given in mm
- Screws with integrated washers will be supplied.
- Cable entry is defined as the accommodation entry of the wire bundle or cable.

STRAIN RELIEF STRAIGHT ADAPTER - SELF LOCKING COUPLING

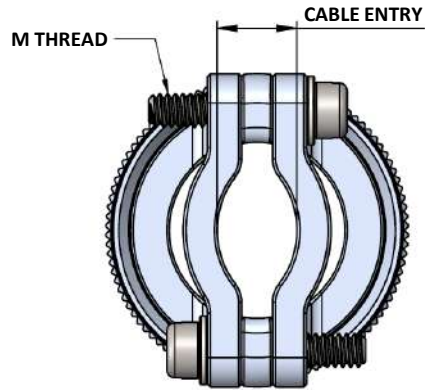
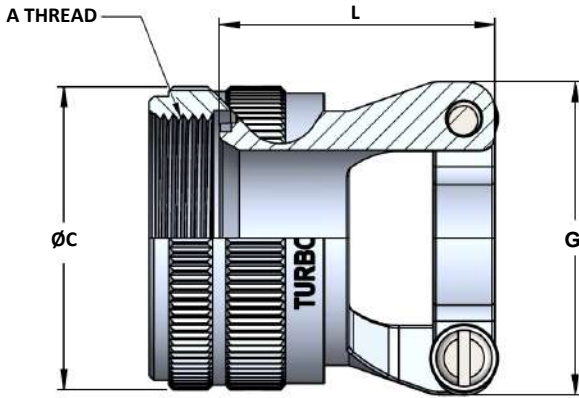
MIL-DTL-26482 SERIES II, AS50151 CRIMP & MIL-DTL-83723 SERIES III

68

SERIES 54

MIL STYLE

AS85049/52



ORDERING INFORMATION

TB 54 - A 5 W - 16

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
A: MIL-DTL- 26482 SERIES II

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
5: SELF LOCKING COUPLING



SERIES 54

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	L MAX	G MAX	CABLE ENTRY		M THREAD
		ØC MAX			MIN	MAX	
8	1/2 - 20 UNEF	22.45	18.54	19.90	3.20	5.20	6-32
10	5/8 - 24 UNEF	25.65	21.59	21.90	4.70	7.30	6-32
12	3/4 - 20 UNEF	28.80	24.89	25.50	7.40	10.60	6-32
14	7/8 - 20 UNEF	32.00	24.89	26.90	8.90	12.10	6-32
16	1 - 20 UNEF	35.15	27.94	33.90	12.70	15.90	6-32
18	1-1/16 - 18 UNEF	38.35	34.29	37.20	13.20	17.90	8-32
20	1-3/16 - 18 UNEF	41.50	37.59	39.90	14.80	21.10	8-32
22	1-5/16 - 18 UNEF	44.70	40.64	42.90	16.40	24.30	8-32
24	1-7/16 - 18 UNEF	47.85	43.94	45.50	17.90	27.50	8-32
28	1-3/4-18UNS	54.20	47.75	51.70	19.10	30.10	8-32
32	2-18 UNS	60.80	54.10	60.60	22.20	31.80	1/4-20
36	2-1/4-16 UN	66.90	61.98	63.40	23.80	34.90	1/4-20
40	2-1/2-16 UN	73.28	66.80	65.20	23.80	38.10	1/4-20
44	2-3/4-16 UN	79.60	76.20	72.60	30.20	44.50	1/4-20
48	3-16UN	85.98	86.36	84.90	33.30	47.60	1/4-20

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

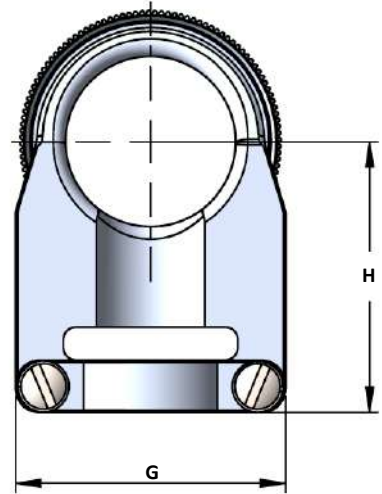
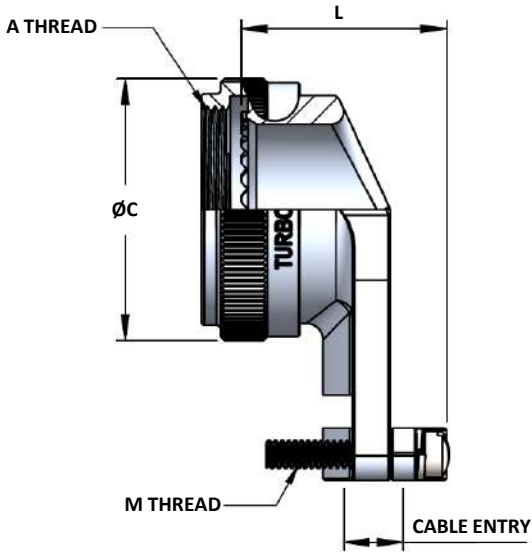
- All dimensions are given in mm
- Screws with integrated washers will be supplied.
- Cable entry is defined as the accommodation entry of the wire bundle or cable.

STRAIN RELIEF 90° ADAPTER – FREE SPINNING COUPLING

SERIES 55

MIL STYLE

AS85049/47



ORDERING INFORMATION

TB 55 - F 3 W - 16

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
F: MIL-DTL 38999 SERIES I & II

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
3: FREE SPINNING COUPLING



SERIES 55

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE		A THREAD	RING DIMENSION	G MAX	L MAX	H MAX	CABLE ENTRY		M THREAD
SERIES I	SERIES II		ØC MAX				MIN	MAX	
09	08	7/16 - 28 UNEF	18.30	21.60	25.70	25.40	2.49	5.94	6-32
11	10	9/16 - 24 UNEF	21.50	22.90	25.70	27.90	3.89	5.94	6-32
13	12	11/16 - 24 UNEF	24.80	27.90	30.70	27.90	4.83	8.33	6-32
15	14	13/16 - 20 UNEF	28.10	29.20	32.00	31.80	6.60	11.61	6-32
17	16	15/16 - 20 UNEF	31.10	33.00	35.80	33.00	7.19	15.60	6-32
19	18	1-1/16 - 18 UNEF	34.30	38.10	38.40	34.30	8.26	16.10	8-32
21	20	1-3/16 - 18 UNEF	37.60	40.60	42.20	40.60	8.71	17.73	8-32
23	22	1-5/16 - 18 UNEF	40.80	43.20	44.70	44.50	9.68	20.90	8-32
25	24	1-7/16 - 18 UNEF	44.00	45.70	48.50	47.00	10.62	21.67	8-32

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

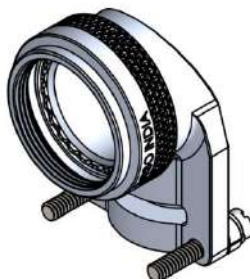
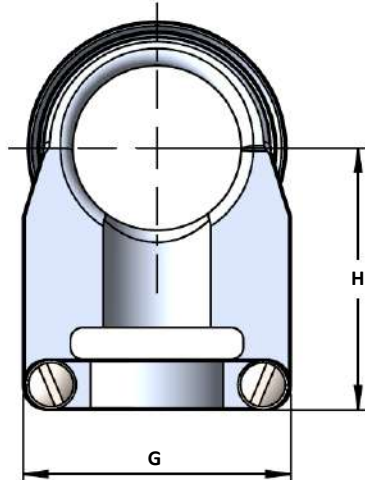
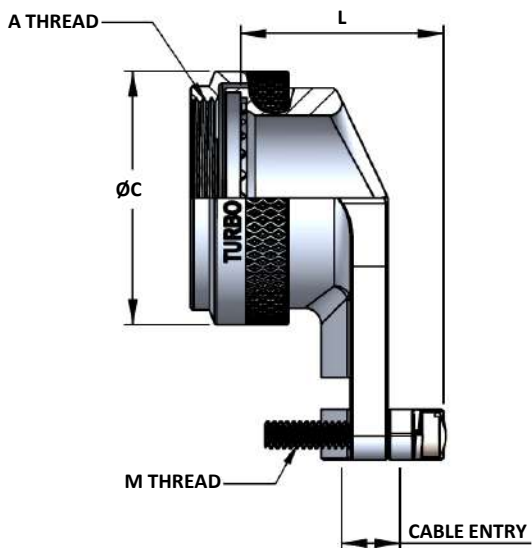
- All dimensions are given in mm
- Screws with integrated washers will be supplied.
- Cable entry is defined as the accommodation entry of the wire bundle or cable.

STRAIN RELIEF 90° ADAPTER –FREE SPINNING COUPLING

SERIES 55

MIL STYLE

AS85049/39



ORDERING INFORMATION

TB 55 - H 3 W - 17

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
H: MIL-DTL 38999 SERIES III & IV

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
3: FREE SPINNING COUPLING



SERIES 55

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	G MAX	L MAX	H MAX	CABLE ENTRY		M THREAD
		ØC MAX				MIN	MAX	
09	M12 x 1.0	19.00	21.60	25.70	25.40	2.49	5.94	6-32
11	M15 x 1.0	21.80	22.90	25.70	27.90	3.89	5.94	6-32
13	M18 x 1.0	25.40	27.90	30.70	27.90	4.83	8.33	6-32
15	M22 x 1.0	29.30	29.20	32.00	31.80	6.60	11.61	6-32
17	M25 x 1.0	32.00	33.00	35.80	33.00	7.19	15.60	6-32
19	M28 x 1.0	35.40	38.10	38.40	34.30	8.26	16.10	8-32
21	M31 x 1.0	39.30	40.60	42.20	40.60	8.71	17.73	8-32
23	M34 x 1.0	41.55	43.20	44.70	44.50	9.68	20.90	8-32
25	M37 x 1.0	46.12	45.70	48.50	47.00	10.62	21.67	8-32

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

- All dimensions are given in mm
- Screws with integrated washers will be supplied.
- Cable entry is defined as the accommodation entry of the wire bundle or cable.

STRAIN RELIEF 90° ADAPTER - FREE SPINNING COUPLING

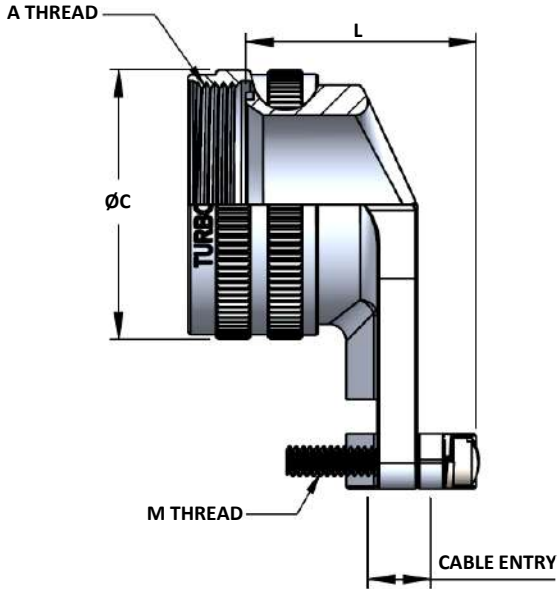
MIL-DTL-26482 SERIES II, AS50151 CRIMP & MIL-DTL-83723 SERIES III

74

SERIES 55

MIL STYLE

AS85049/51



ORDERING INFORMATION

TB 55 - A 3 W - 16

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
A: MIL-DTL- 26482 SERIES II

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
3: FREE SPINNING COUPLING



SERIES 55

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	G MAX	L MAX	H MAX	CABLE ENTRY		M THREAD
		ØC MAX				MIN	MAX	
03	9/16-24 UNEF	17.00	19.90	19.81	19.74	3.20	5.20	6-32
08	1/2 - 20 UNEF	16.00	19.90	19.81	18.85	3.20	5.20	6-32
10	5/8 - 24 UNEF	18.70	21.90	21.84	20.45	4.70	7.30	6-32
12	3/4 - 20 UNEF	22.10	25.50	26.67	22.02	7.40	10.60	6-32
14	7/8 - 20 UNEF	25.20	26.90	28.19	23.62	8.90	12.10	6-32
16	1 - 20 UNEF	28.40	33.90	32.00	25.25	12.70	15.90	6-32
18	1-1/16 - 18 UNEF	31.10	37.20	34.80	29.74	13.20	17.90	8-32
20	1-3/16 - 18 UNEF	34.30	39.90	38.10	31.34	14.80	21.10	8-32
22	1-5/16 - 18 UNEF	37.50	42.90	41.15	32.92	16.40	24.30	8-32
24	1-7/16 - 18 UNEF	40.60	45.50	44.45	34.49	17.90	27.50	8-32
28	1-3/4-18UNS	50.20	51.70	48.01	39.93	19.10	30.10	8-32
32	2-18 UNS	56.50	60.60	49.53	45.64	22.20	31.80	1/4-20
36	2-1/4-16 UN	62.90	63.40	52.58	48.82	23.80	34.90	1/4-20
40	2-1/2-16 UN	69.20	65.20	55.88	51.99	23.80	38.10	1/4-20
44	2-3/4-16 UN	75.60	72.60	62.23	58.32	30.20	44.50	1/4-20
48	3-16UN	81.90	84.90	65.28	61.49	33.30	47.60	1/4-20
61	1-1/2-18 UNEF	42.20	45.10	44.45	35.26	17.90	27.50	8-32

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

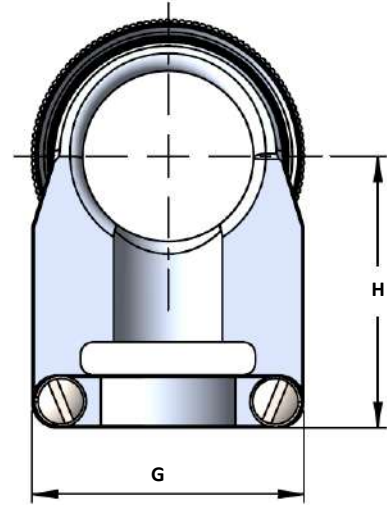
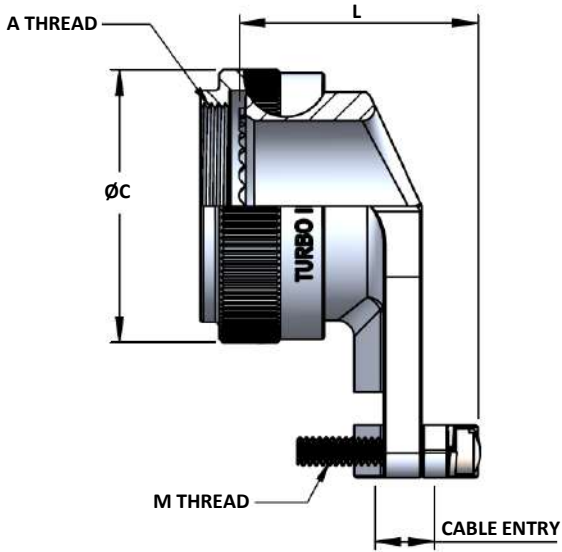
- All dimensions are given in mm
- Screws with integrated washers will be supplied.
- Cable entry is defined as the accommodation entry of the wire bundle or cable.

STRAIN RELIEF 90° ADAPTER – SELF LOCKING COUPLING

SERIES 55

MIL STYLE

AS85049/47



ORDERING INFORMATION

TB 55 - F 5 W - 16

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
F: MIL-DTL 38999 SERIES I & II

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
5: SELF LOCK



SERIES 55

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE		A THREAD	RING DIMENSION	G MAX	L MAX	H MAX	CABLE ENTRY		M THREAD
SERIES I	SERIES II		ØC MAX				MIN	MAX	
09	08	7/16 - 28 UNEF	21.80	21.60	25.70	25.40	2.49	5.94	6-32
11	10	9/16 - 24 UNEF	25.00	22.90	25.70	27.90	3.89	5.94	6-32
13	12	11/16 - 24 UNEF	29.35	27.90	30.70	27.90	4.83	8.33	6-32
15	14	13/16 - 20 UNEF	32.54	29.20	32.00	31.80	6.60	11.61	6-32
17	16	15/16 - 20 UNEF	35.70	33.00	35.80	33.00	7.19	15.60	6-32
19	18	1-1/16 - 18 UNEF	38.50	38.10	38.40	34.30	8.26	16.10	8-32
21	20	1-3/16 - 18 UNEF	41.65	40.60	42.20	40.60	8.71	17.73	8-32
23	22	1-5/16 - 18 UNEF	44.85	43.20	44.70	44.50	9.68	20.90	8-32
25	24	1-7/16 - 18 UNEF	48.00	45.70	48.50	47.00	10.62	21.67	8-32

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

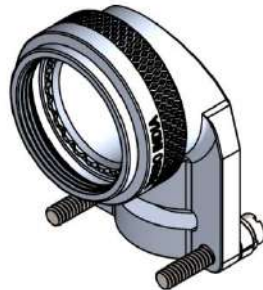
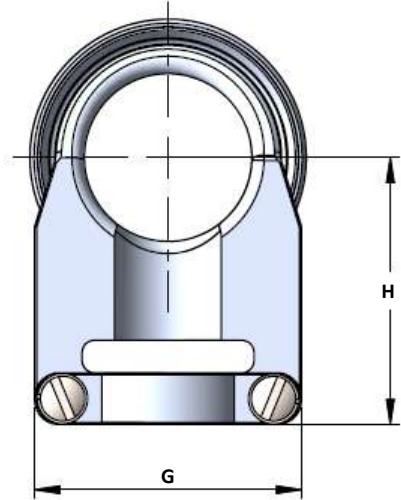
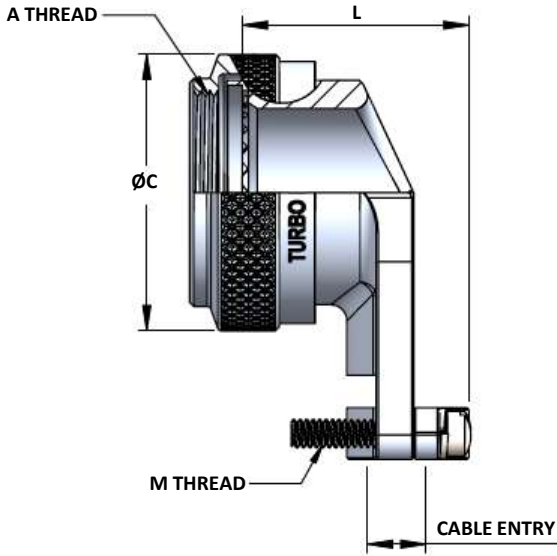
- All dimensions are given in mm
- Screws with integrated washers will be supplied.
- Cable entry is defined as the accommodation entry of the wire bundle or cable.

STRAIN RELIEF 90° ADAPTER – SELF LOCKING COUPLING

SERIES 55

MIL STYLE

AS85049/39



ORDERING INFORMATION

TB 55 - H 5 W - 17

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
H: MIL-DTL 38999 SERIES III & IV

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
5: SELF LOCK



SERIES 55

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	G MAX	L MAX	H MAX	CABLE ENTRY		M THREAD
		ØC MAX				MIN	MAX	
09	M12 x 1.0	21.50	21.60	25.70	25.40	2.49	5.94	6-32
11	M15 x 1.0	24.65	22.90	25.70	27.90	3.89	5.94	6-32
13	M18 x 1.0	28.10	27.90	30.70	27.90	4.83	8.33	6-32
15	M22 x 1.0	31.50	29.20	32.00	31.80	6.60	11.61	6-32
17	M25 x 1.0	34.50	33.00	35.80	33.00	7.19	15.60	6-32
19	M28 x 1.0	37.50	38.10	38.40	34.30	8.26	16.10	8-32
21	M31 x 1.0	40.50	40.60	42.20	40.60	8.71	17.73	8-32
23	M34 x 1.0	43.50	43.20	44.70	44.50	9.68	20.90	8-32
25	M37 x 1.0	47.50	45.70	48.50	47.00	10.62	21.67	8-32

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

- All dimensions are given in mm
- Screws with integrated washers will be supplied.
- Cable entry is defined as the accommodation entry of the wire bundle or cable.

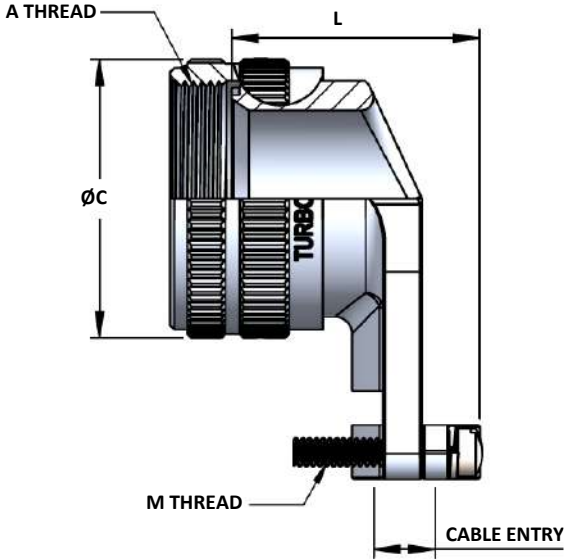
STRAIN RELIEF 90° ADAPTER –SELF LOCKING COUPLING

MIL-DTL-26482 SERIES II, AS50151 CRIMP & MIL-DTL-83723 SERIES III

SERIES 55

MIL STYLE

AS85049/51



ORDERING INFORMATION

TB 55 - A 5 W - 16

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
A: MIL-DTL- 26482 SERIES II

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
5: SELF LOCK



SERIES 55

TABLE- I BACKSHELL DIMENSIONS

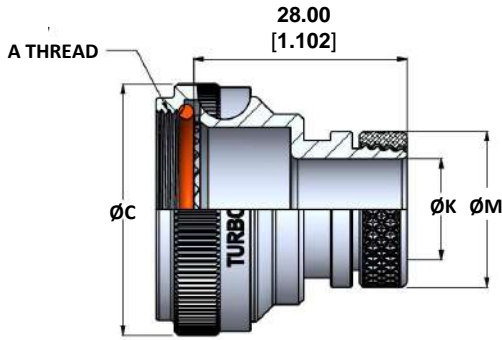
SHELL SIZE	A THREAD	RING DIMENSION	G MAX	L MAX	H MAX	CABLE ENTRY		M THREAD
		ØC MAX				MIN	MAX	
08	1/2 - 20 UNEF	22.45	19.90	23.62	18.85	3.20	5.20	6-32
10	5/8 - 24 UNEF	25.65	21.90	25.91	20.45	4.70	7.30	6-32
12	3/4 - 20 UNEF	28.80	25.50	30.73	22.02	7.40	10.60	6-32
14	7/8 - 20 UNEF	32.00	26.90	32.26	23.62	8.90	12.10	6-32
16	1 - 20 UNEF	35.15	33.90	36.07	25.25	12.70	15.90	6-32
18	1-1/16 - 18 UNEF	38.35	37.20	38.86	29.74	13.20	17.90	8-32
20	1-3/16 - 18 UNEF	41.50	39.90	41.91	31.34	14.80	21.10	8-32
22	1-5/16 - 18 UNEF	44.70	42.90	45.21	32.92	16.40	24.30	8-32
24	1-7/16 - 18 UNEF	47.85	45.50	48.26	34.49	17.90	27.50	8-32
28	1-3/4-18UNS	54.20	51.70	55.88	39.93	19.10	30.10	8-32
32	2-18 UNS	60.80	60.60	57.66	45.64	22.20	31.80	1/4-20
36	2-1/4-16 UN	66.90	63.40	60.71	48.82	23.80	34.90	1/4-20
40	2-1/2-16 UN	73.28	65.20	64.01	51.99	23.80	38.10	1/4-20
44	2-3/4-16 UN	79.60	72.60	70.36	58.32	30.20	44.50	1/4-20
48	3-16UN	85.98	84.90	73.41	61.49	33.30	47.60	1/4-20

TABLE- II MATERIAL AND FINISH

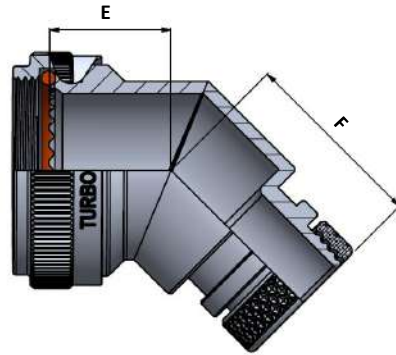
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

- All dimensions are given in mm
- Screws with integrated washers will be supplied.
- Cable entry is defined as the accommodation entry of the wire bundle or cable.

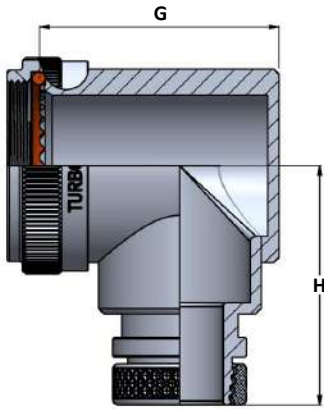
SERIES 61



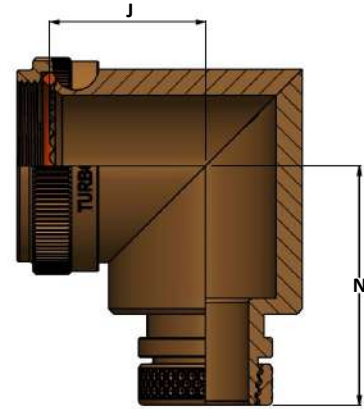
S = STRAIGHT



F = 45 DEGREE



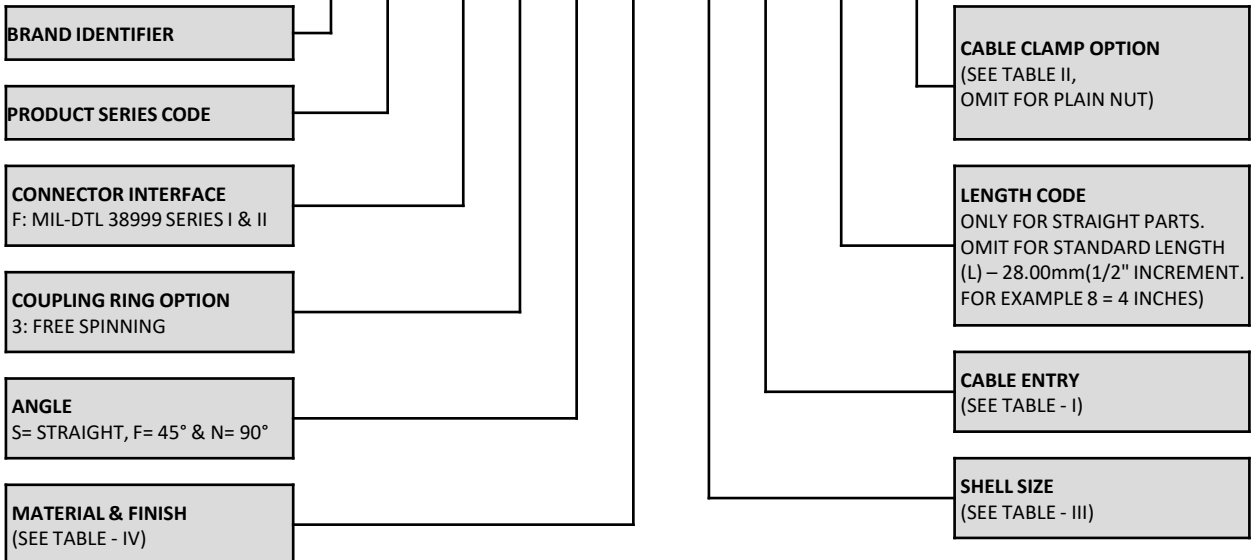
N = 90 DEGREE



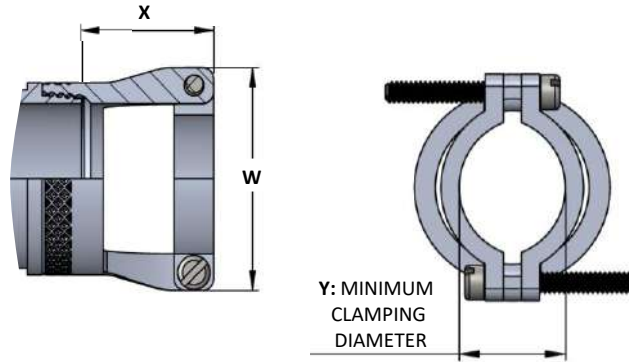
N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 61 - F 3 N W - 16 07 - 8 - CC



SERIES 61



CC - CABLE CLAMP OPTION
 STANDARD LENGTH FOR CABLE CLAMP OPTION IS 32.00 mm

TABLE- I CABLE ENTRY					
DASH NO	ØK +0.20	ØM MAX	W MAX	X MAX	Y MIN
3	4.70	15.20	17.50	12.80	5.80
4	6.30	15.20	19.10	12.80	5.70
5	7.90	16.80	20.70	12.80	6.80
6	9.50	18.40	22.30	12.80	6.90
7	11.10	20.00	23.80	12.80	8.10
8	12.70	21.60	25.30	15.80	8.50
9	14.20	23.20	27.00	15.80	9.70
10	15.80	24.80	28.60	15.80	10.40
11	17.40	26.40	30.30	18.80	11.50
12	19.00	27.90	31.80	18.80	11.50
13	20.60	29.50	33.30	18.80	14.00
14	22.20	31.10	35.00	21.80	15.40
15	23.80	32.70	36.70	21.80	16.80
16	25.40	34.30	38.10	21.80	17.30
17	27.00	35.90	39.70	21.80	18.80
18	28.60	37.50	41.30	21.80	19.50
19	30.20	39.30	42.90	23.30	25.90
20	31.80	40.60	44.50	23.30	23.40
21	33.30	42.20	46.00	23.30	24.80
22	35.00	43.80	47.00	23.30	24.80
23	36.50	45.40	48.00	23.30	25.40
24	38.10	47.00	51.10	23.30	27.40

TABLE- II CABLE CLAMP DIMENSIONS					
SHELL SIZE		ELBOW DIMENSIONS		FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
SERIES I	SERIES II	F MAX	H MAX	J MAX	N MAX
09	08	25.00	31.50	16.00	31.50
11	10	25.60	33.20	18.00	33.20
13	12	26.00	34.70	19.00	34.70
15	14	26.90	36.20	21.00	36.20
17	16	27.70	37.90	22.50	37.90
19	18	28.00	39.50	24.00	39.50
21	20	28.90	41.10	26.00	41.10
23	22	29.30	42.60	27.00	42.60
25	24	30.10	44.10	29.00	44.10



SERIES 61

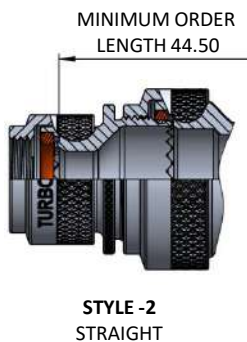
TABLE- III BACKSHELL DIMENSIONS

SHELL SIZE		A THREAD	RING DIMENSION	ELBOW DIMENSIONS (PLAIN NUT)				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
SERIES I	SERIES II		ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX	N MAX
09	08	7/16 - 28 UNEF	18.30	17.90	20.90	24.70	27.00	16.00	27.00
11	10	9/16 - 24 UNEF	21.50	18.70	21.60	27.20	28.70	18.00	28.70
13	12	11/16 - 24 UNEF	24.80	19.10	22.00	30.20	31.50	19.00	31.50
15	14	13/16 - 20 UNEF	28.10	20.00	22.90	33.20	31.70	21.00	31.70
17	16	15/16 - 20 UNEF	31.10	20.70	23.70	36.70	33.50	22.50	33.50
19	18	1-1/16 - 18 UNEF	34.30	21.10	24.00	40.70	35.10	24.00	35.10
21	20	1-3/16 - 18 UNEF	37.60	21.90	24.90	43.20	36.70	26.00	36.70
23	22	1-5/16 - 18 UNEF	40.80	22.30	25.30	46.20	38.10	27.00	38.10
25	24	1-7/16 - 18 UNEF	44.00	23.20	26.10	49.20	39.60	29.00	39.60

TABLE- IV MATERIAL AND FINISH

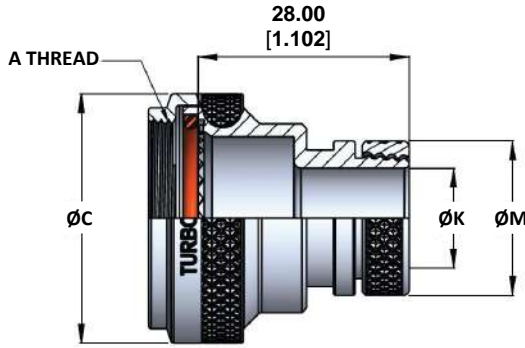
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

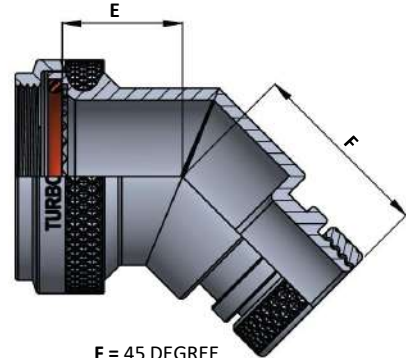


- All dimensions are given in mm
- When maximum cable entry is exceeded, Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.
- Standard length for cable clamp option is 32.00 mm

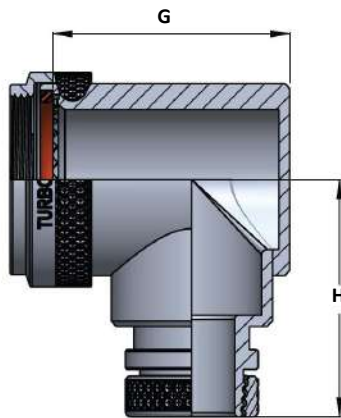
SERIES 61



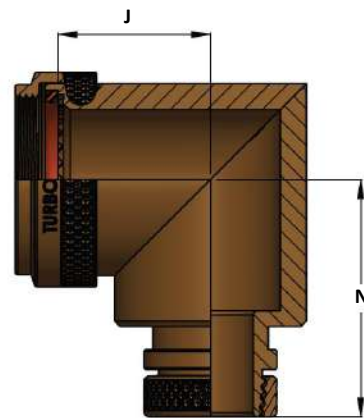
S = STRAIGHT



F = 45 DEGREE



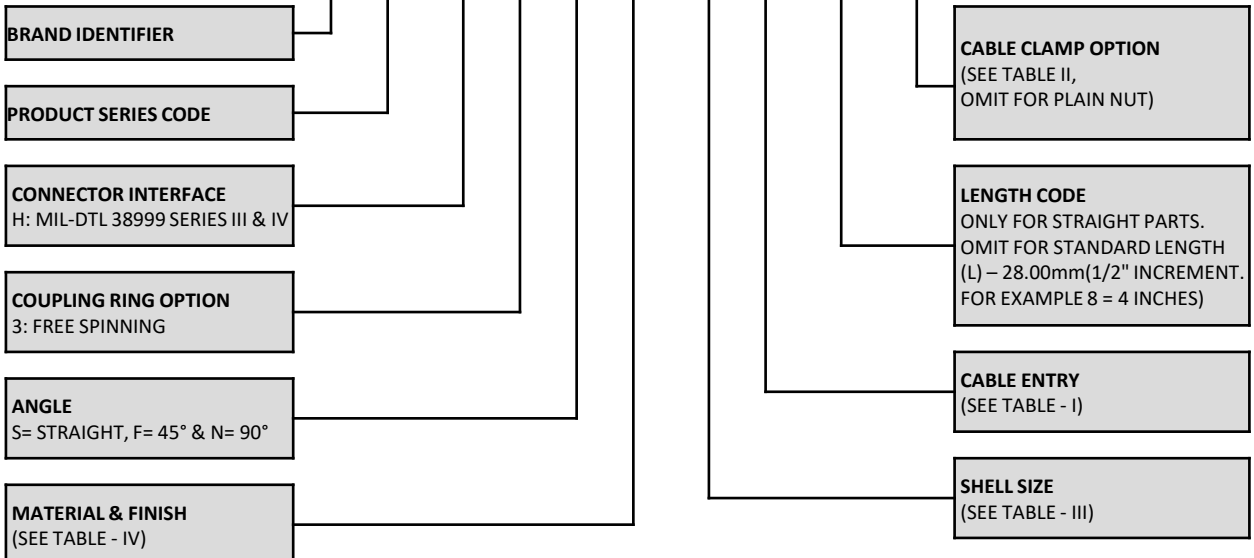
N = 90 DEGREE



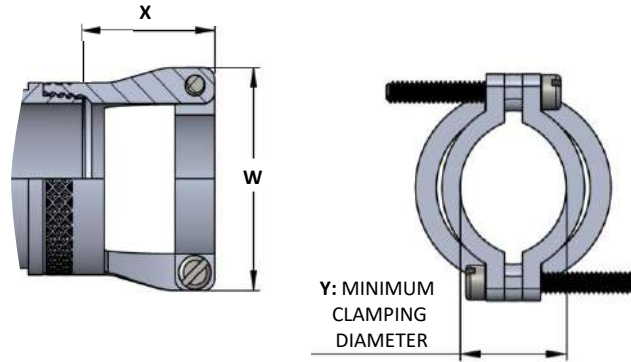
N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 61 - H 3 N W - 17 07 - 8 - CC



SERIES 61



CC - CABLE CLAMP OPTION

STANDARD LENGTH FOR CABLE CLAMP OPTION IS 32.00 mm

TABLE- I CABLE ENTRY

DASH NO	ØK +0.20	ØM MAX	W MAX	X MAX	Y MIN
3	4.70	15.20	17.50	12.80	5.80
4	6.30	15.20	19.10	12.80	5.70
5	7.90	16.80	20.70	12.80	6.80
6	9.50	18.40	22.30	12.80	6.90
7	11.10	20.00	23.80	12.80	8.10
8	12.70	21.60	25.30	15.80	8.50
9	14.20	23.20	27.00	15.80	9.70
10	15.80	24.80	28.60	15.80	10.40
11	17.40	26.40	30.30	18.80	11.50
12	19.00	27.90	31.80	18.80	11.50
13	20.60	29.50	33.30	18.80	14.00
14	22.20	31.10	35.00	21.80	15.40
15	23.80	32.70	36.70	21.80	16.80
16	25.40	34.30	38.10	21.80	17.30
17	27.00	35.90	39.70	21.80	18.80
18	28.60	37.50	41.30	21.80	19.50
19	30.20	39.30	42.90	23.30	25.90
20	31.80	40.60	44.50	23.30	23.40
21	33.30	42.20	46.00	23.30	24.80
22	35.00	43.80	47.00	23.30	24.80
23	36.50	45.40	48.00	23.30	25.40
24	38.10	47.00	51.10	23.30	27.40

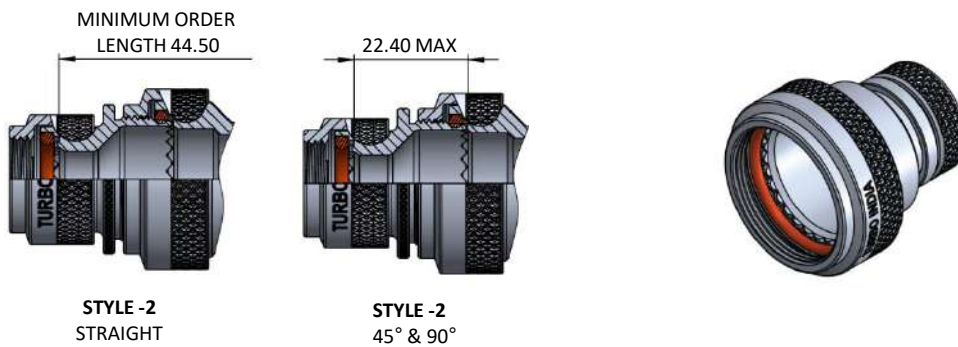
TABLE- II CABLE CLAMP DIMENSIONS

SHELL SIZE	ELBOW DIMENSIONS		FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
	F MAX	H MAX	J MAX	N MAX
09	25.00	31.50	17.40	34.70
11	25.80	33.20	18.80	36.50
13	26.10	34.70	20.60	38.00
15	27.00	36.20	22.70	39.50
17	27.90	37.90	24.30	41.20
19	28.40	39.50	26.40	42.80
21	29.20	41.10	27.10	44.40
23	29.60	42.60	28.60	45.90
25	30.40	44.10	30.10	47.40

SERIES 61

TABLE- III BACKSHELL DIMENSIONS								
SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS (PLAIN NUT)				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
			ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX
09	M12 x 1.0	19.00	14.10	25.50	27.70	27.50	17.40	27.50
11	M15 x 1.0	21.80	14.90	26.30	28.70	29.20	18.80	29.20
13	M18 x 1.0	25.40	15.50	26.60	33.20	31.50	20.60	31.50
15	M22 x 1.0	29.30	16.50	27.50	39.20	31.70	22.70	31.70
17	M25 x 1.0	32.00	17.10	28.40	42.20	33.40	24.30	33.40
19	M28 x 1.0	35.40	17.80	28.90	46.70	35.10	26.40	35.10
21	M31 x 1.0	39.30	18.10	29.70	49.70	36.70	27.10	36.70
23	M34 x 1.0	41.55	18.70	30.10	52.20	38.10	28.60	38.10
25	M37 x 1.0	46.12	19.40	30.90	53.70	39.60	30.10	39.60

TABLE- IV MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		



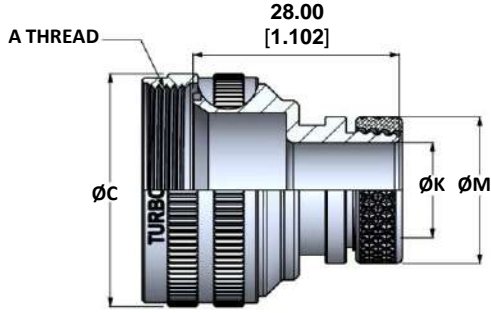
- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.
- Standard length for cable clamp option is 32.00 mm



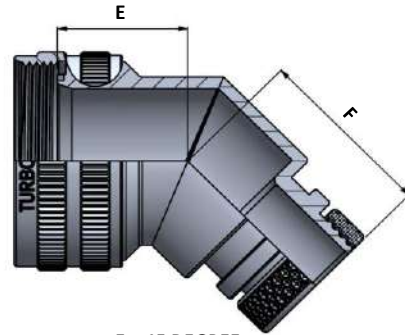
EMI/RFI LAMP BASE THREAD ADAPTER - FREE SPINNING COUPLING

MIL-DTL-26482 SERIES II, AS50151 CRIMP & MIL-DTL-83723 SERIES III

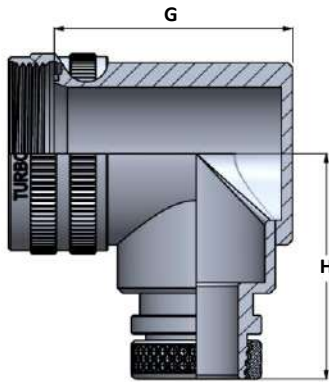
SERIES 61



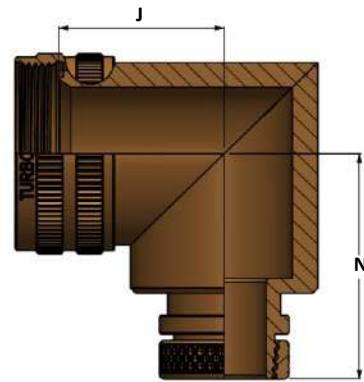
S = STRAIGHT



F = 45 DEGREE



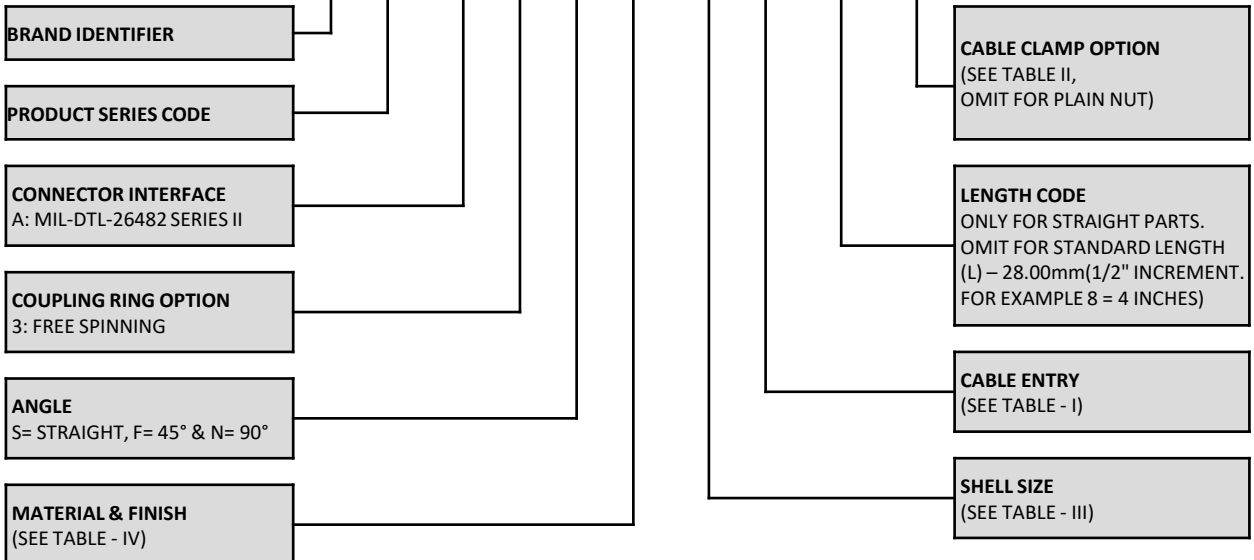
N = 90 DEGREE



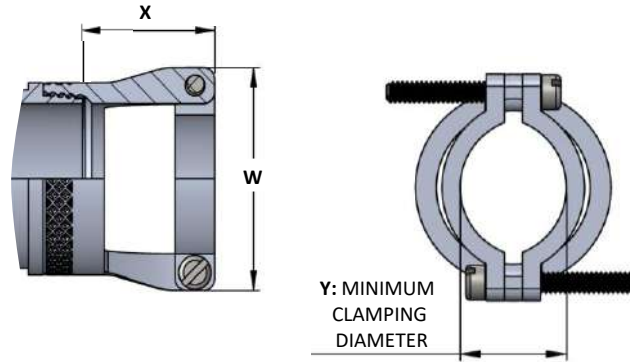
N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE

ORDERING INFORMATION

TB 61 - A 3 N W - 16 07 - 8 - CC



SERIES 61



CC - CABLE CLAMP OPTION

STANDARD LENGTH FOR CABLE CLAMP OPTION IS 32.00 mm

TABLE- I CABLE ENTRY					
DASH NO	ØK +0.20	ØM MAX	W MAX	X MAX	Y MIN
3	4.70	15.20	17.50	12.80	5.80
4	6.30	15.20	19.10	12.80	5.70
5	7.90	16.80	20.70	12.80	6.80
6	9.50	18.40	22.30	12.80	6.90
7	11.10	20.00	23.80	12.80	8.10
8	12.70	21.60	25.30	15.80	8.50
9	14.20	23.20	27.00	15.80	9.70
10	15.80	24.80	28.60	15.80	10.40
11	17.40	26.40	30.30	18.80	11.50
12	19.00	27.90	31.80	18.80	11.50
13	20.60	29.50	33.30	18.80	14.00
14	22.20	31.10	35.00	21.80	15.40
15	23.80	32.70	36.70	21.80	16.80
16	25.40	34.30	38.10	21.80	17.30
17	27.00	35.90	39.70	21.80	18.80
18	28.60	37.50	41.30	21.80	19.50
19	30.20	39.30	42.90	23.30	25.90
20	31.80	40.60	44.50	23.30	23.40
21	33.30	42.20	46.00	23.30	24.80
22	35.00	43.80	47.00	23.30	24.80
23	36.50	45.40	48.00	23.30	25.40
24	38.10	47.00	51.10	23.30	27.40

TABLE- II CABLE CLAMP DIMENSIONS				
SHELL SIZE	ELBOW DIMENSIONS		FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
	F MAX	H MAX	J MAX	N MAX
08	25.00	31.50	18.50	31.50
10	25.70	33.20	19.80	33.20
12	26.10	34.00	21.40	34.00
14	27.00	35.40	22.50	35.40
16	27.80	37.90	24.00	37.90
18	28.30	37.90	25.00	37.90
20	29.20	39.50	26.70	39.50
22	29.50	41.20	28.20	41.20
24	30.40	42.60	29.70	42.60



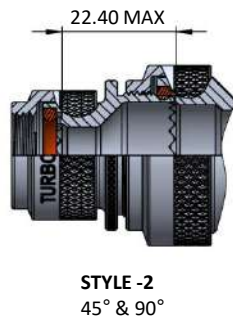
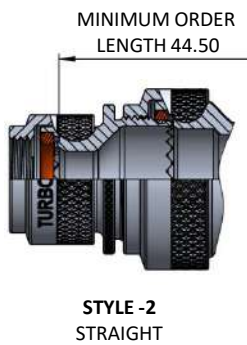
SERIES 61

TABLE- III BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS (PLAIN NUT)				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
			ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX
08	1/2 - 20 UNEF	16.00	18.10	21.00	25.70	27.50	18.50	27.50
10	5/8 - 24 UNEF	18.70	18.30	21.70	27.70	29.20	19.80	29.20
12	3/4 - 20 UNEF	22.10	18.80	22.10	30.20	30.00	21.40	30.00
14	7/8 - 20 UNEF	25.20	19.60	23.00	31.70	31.40	22.50	31.40
16	1 - 20 UNEF	28.40	20.50	23.80	35.20	33.90	24.00	33.90
18	1-1/16 - 18 UNEF	31.10	20.70	24.30	38.20	33.90	25.00	33.90
20	1-3/16 - 18 UNEF	34.30	21.60	25.20	43.20	35.50	26.70	35.50
22	1-5/16 - 18 UNEF	37.50	21.80	25.50	45.20	37.20	28.20	37.20
24	1-7/16 - 18 UNEF	40.60	23.30	26.40	46.20	38.60	29.70	38.60

TABLE- IV MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		



- All dimensions are given in mm
- When maximum cable entry is exceeded, Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.
- Standard length for cable clamp option is 32.00 mm

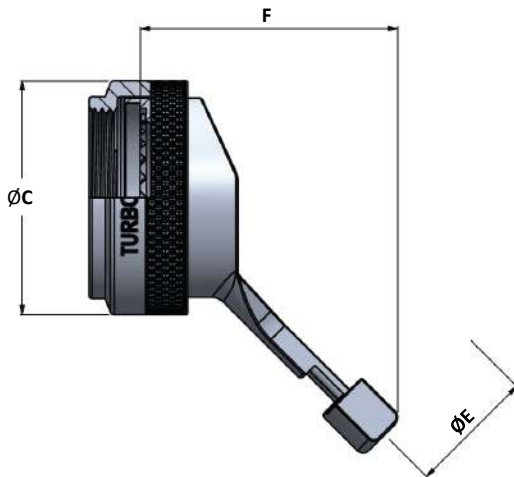
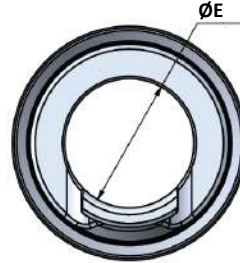
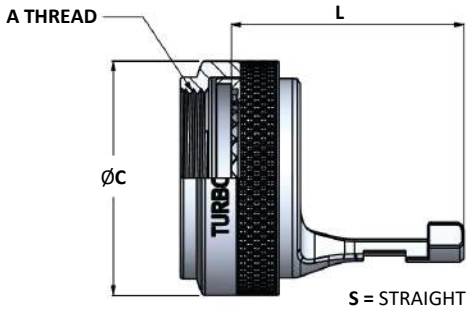
TIE STRAP – FREE SPINNING COUPLING BACKSHELLS

MIL-DTL 38999 SERIES III & IV

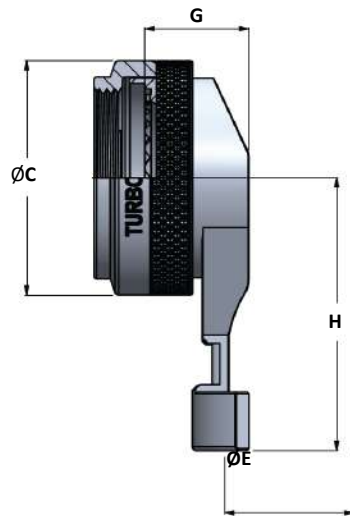
SERIES 64

MIL STYLE

AS85049/15
AS85049/16



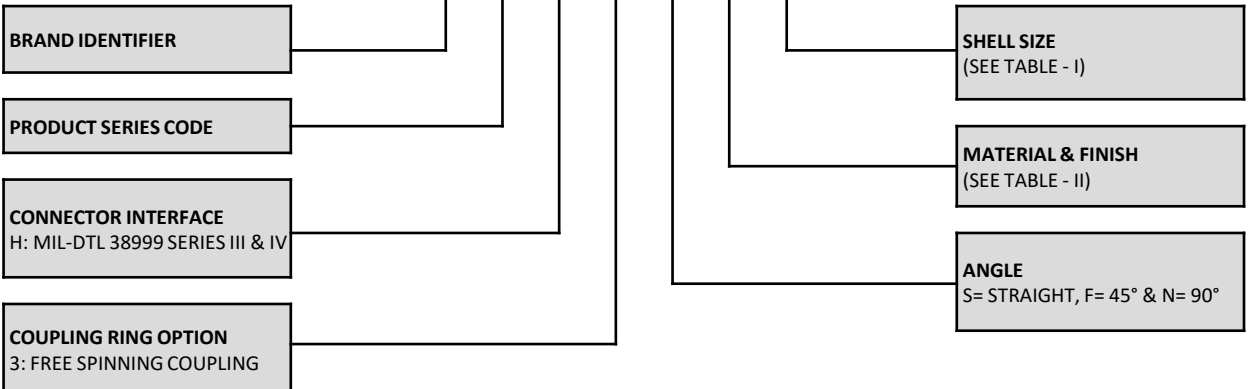
F = 45 DEGREE



N = 90 DEGREE

ORDERING INFORMATION

TB 64 - H 3 S W - 17



SERIES 64

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS				CABLE ENTRY
		ØC MAX	L MAX	F MAX	G MAX	H MAX	ØE +0.20
09	M12 x 1.0	19.00	22.80	27.90	18.30	22.60	6.40
11	M15 x 1.0	21.80	22.80	27.90	18.30	24.10	9.70
13	M18 x 1.0	25.40	24.30	27.90	18.30	27.20	12.70
15	M22 x 1.0	29.30	28.80	31.00	18.30	33.80	16.00
17	M25 x 1.0	32.00	28.80	31.90	18.30	35.30	19.10
19	M28 x 1.0	35.40	30.70	31.90	18.30	37.60	21.30
21	M31 x 1.0	39.30	34.00	31.90	18.30	42.20	24.60
23	M34 x 1.0	41.55	37.00	31.90	18.30	47.00	27.70
25	M37 x 1.0	46.12	40.30	31.90	18.30	48.50	31.00

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		



- All dimensions are given in mm
- Use MS3367-1 Tie strap or equivalent.
- For customization, above dimensions will not be applicable.
- Final dimensions will be intimated to the customer through customer reference drawing.

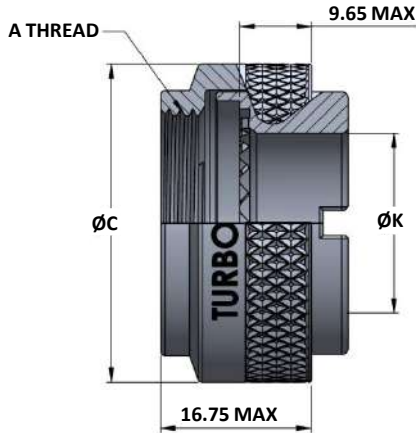
SORTING ADAPTER – FREE SPINNING COUPLING

MIL-DTL 38999 SERIES III & IV

SERIES 21PB

MIL STYLE

AS85049/14



ORDERING INFORMATION

TB 21PB - H 3 S W - 17

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
H: MIL-DTL 38999 SERIES III & IV

COUPLING RING OPTION
3: FREE SPINNING COUPLING

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

ANGLE
S= STRAIGHT

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	CABLE ENTRY
		ØC MAX	ØK MIN
09	M12 x 1.0	19.00	6.75
11	M15 x 1.0	21.80	9.90
13	M18 x 1.0	25.40	12.80
15	M22 x 1.0	29.30	15.98
17	M25 x 1.0	32.00	19.15
19	M28 x 1.0	35.40	21.45
21	M31 x 1.0	39.30	24.65
23	M34 x 1.0	41.55	27.75
25	M37 x 1.0	46.12	30.95

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

➤ All dimensions are given in mm

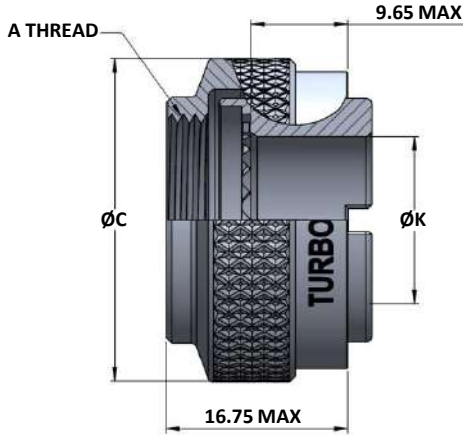
SORTING ADAPTER – SELF LOCKING COUPLING

MIL-DTL 38999 SERIES III & IV

SERIES 21PB

MIL STYLE

AS85049/14



ORDERING INFORMATION

TB 21PB - H 5 S W - 17

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
H: MIL-DTL 38999 SERIES III & IV

COUPLING RING OPTION
5: SELF LOCKING COUPLING

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

ANGLE
S= STRAIGHT

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	CABLE ENTRY
		ØC MAX	ØK MIN
09	M12 x 1.0	21.50	6.75
11	M15 x 1.0	24.65	9.90
13	M18 x 1.0	28.10	12.80
15	M22 x 1.0	31.50	15.98
17	M25 x 1.0	34.50	19.15
19	M28 x 1.0	37.50	21.45
21	M31 x 1.0	40.50	24.65
23	M34 x 1.0	43.50	27.75
25	M37 x 1.0	47.50	30.95

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

➤ All dimensions are given in mm



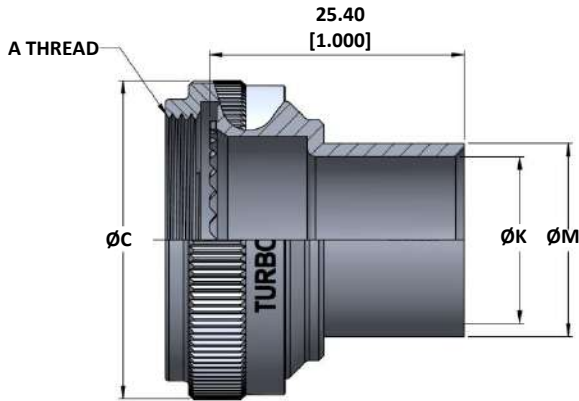
CRIMP RING BACKSHELL - FREE SPINNING COUPLING

MIL-DTL 38999 SERIES I & II

SERIES 20

MIL STYLE

AS85049/33-2



ORDERING INFORMATION

TB 20 - F 3 W - 16

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
F: MIL-DTL 38999 SERIES I & II

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
3: FREE SPINNING COUPLING

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE		A THREAD	ØC MAX	ØK MAX	ØM MAX
SERIES I	SERIES II				
09	08	7/16 - 28 UNEF	18.30	6.40	8.80
11	10	9/16 - 24 UNEF	21.50	8.30	12.60
13	12	11/16 - 24 UNEF	24.80	10.70	13.00
15	14	13/16 - 20 UNEF	28.10	13.70	16.00
17	16	15/16 - 20 UNEF	31.10	17.00	19.30
19	18	1-1/16 - 18 UNEF	34.30	20.00	22.60
21	20	1-3/16 - 18 UNEF	37.60	23.20	25.70
23	22	1-5/16 - 18 UNEF	40.80	26.40	28.70
25	24	1-7/16 - 18 UNEF	44.00	28.20	30.50

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

➤ All dimensions are given in mm

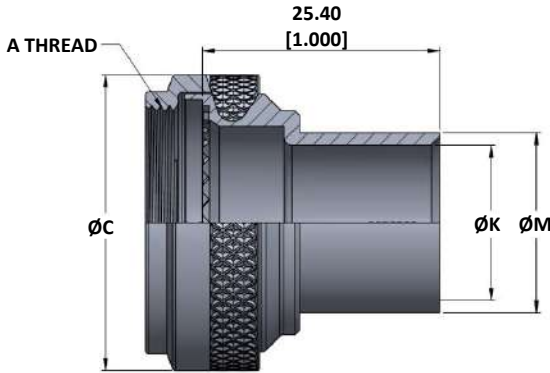
CRIMP RING BACKSHELL - FREE SPINNING COUPLING

MIL-DTL 38999 SERIES III & IV

SERIES 20

MIL STYLE

AS85049/20



ORDERING INFORMATION

TB 20 - H 3 W - 17

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
H: MIL-DTL 38999 SERIES III & IV

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
3: FREE SPINNING COUPLING

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	ØC MAX	ØK MAX	ØM MAX
09	M12 x 1.0	19.00	6.40	8.80
11	M15 x 1.0	21.80	8.30	12.60
13	M18 x 1.0	25.40	10.70	13.00
15	M22 x 1.0	29.30	13.70	16.00
17	M25 x 1.0	32.00	17.00	19.30
19	M28 x 1.0	35.40	20.00	22.60
21	M31 x 1.0	39.30	23.20	25.70
23	M34 x 1.0	41.55	26.40	28.70
25	M37 x 1.0	46.12	28.20	30.50

TABLE- II MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

➤ All dimensions are given in mm



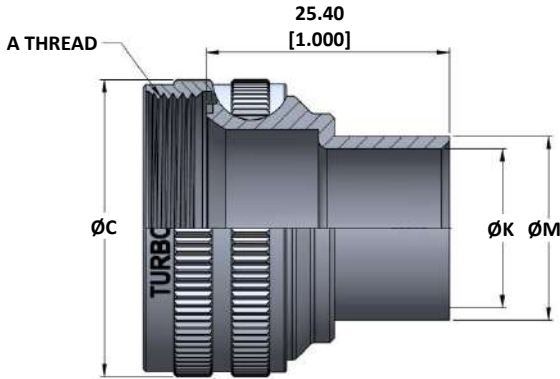
CRIMP RING BACKSHELL - FREE SPINNING COUPLING

MIL-DTL-26482 SERIES II, AS50151 CRIMP & MIL-DTL-83723 SERIES III

SERIES 20

MIL STYLE

AS85049/26-1



ORDERING INFORMATION

TB 20 - A 3 W - 16

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
A: MIL-DTL- 26482 SERIES II

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - II)

COUPLING RING OPTION
3: FREE SPINNING COUPLING

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	ØC MAX	ØK MAX	ØM MAX
03	9/16-24 UNEF	17.00	6.40	8.60
08	1/2 - 20 UNEF	16.00	6.40	8.60
10	5/8 - 24 UNEF	18.70	8.30	12.40
12	3/4 - 20 UNEF	22.10	10.70	12.70
14	7/8 - 20 UNEF	25.20	13.70	15.70
16	1 - 20 UNEF	28.40	17.00	19.10
18	1-1/16 - 18 UNEF	31.10	20.00	22.40
20	1-3/16 - 18 UNEF	34.30	23.20	25.40
22	1-5/16 - 18 UNEF	37.50	26.40	28.40
24	1-7/16 - 18 UNEF	40.60	28.20	30.30
28	1-3/4-18UNS	50.20	35.30	39.20
32	2-18 UNS	56.50	41.50	45.60
36	2-1/4-16 UN	62.90	47.00	51.90
40	2-1/2-16 UN	69.20	52.50	58.30
44	2-3/4-16 UN	75.60	58.90	64.60
48	3-16UN	81.90	65.30	71.00
61	1-1/2-18 UNEF	42.20	30.70	34.50

TABLE- II MATERIAL AND FINISH

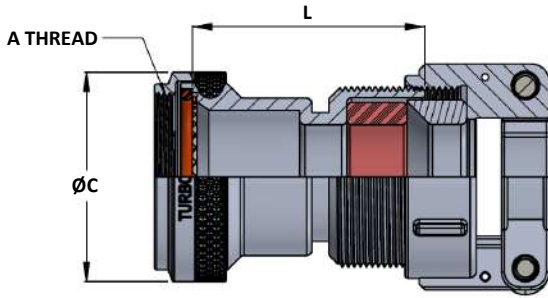
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

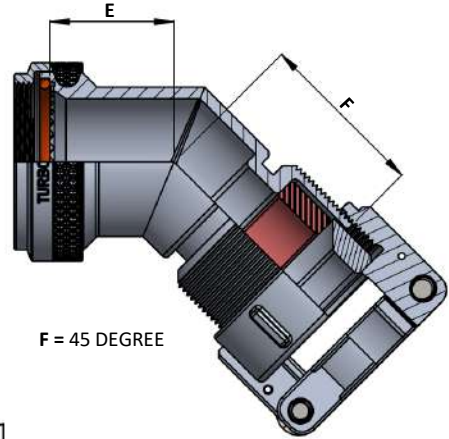
➤ All dimensions are given in mm

SUBMERSIBLE CABLE CLAMP FREE SPINNING ADAPTER - ENVIRONMENTAL , NON SCREENED - MIL-DTL 38999 SERIES III & IV

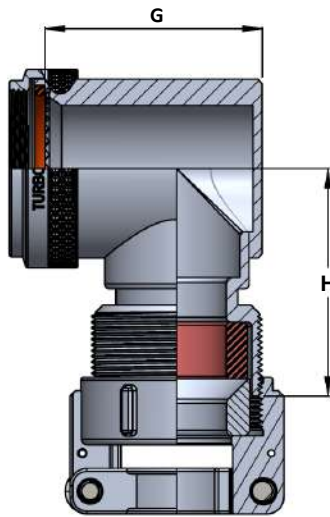
SERIES 110-01



S = STRAIGHT



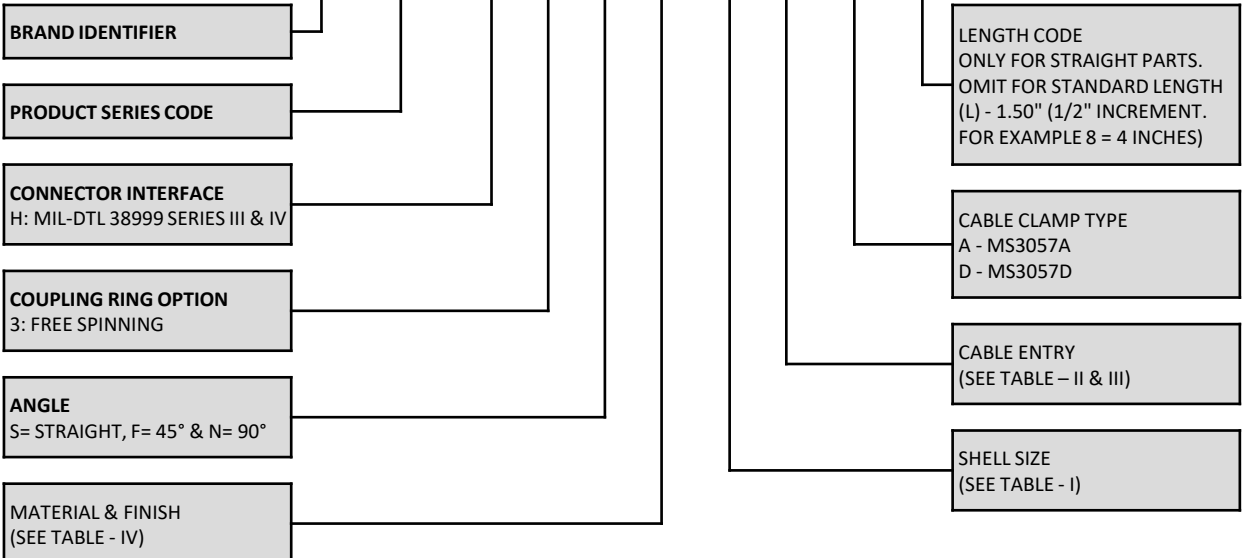
F = 45 DEGREE



N = 90 DEGREE

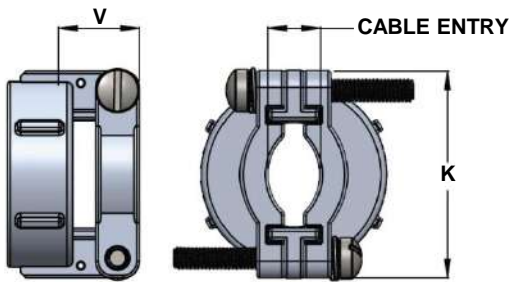
ORDERING INFORMATION

TB 110-01 - H 3 N W - 17 07 - A - 6

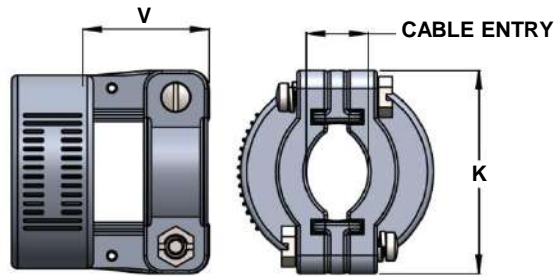


SERIES 110-01

TABLE- I BACKSHELL DIMENSIONS						
SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS			
		ØC MAX	E MAX	F MAX	G MAX	H MAX
09	M12 x 1.0	19.00	14.10	35.80	27.70	36.10
11	M15 x 1.0	21.80	14.90	37.30	28.70	39.10
13	M18 x 1.0	25.40	15.50	38.90	33.20	39.60
15	M22 x 1.0	29.30	16.50	41.10	39.20	41.40
17	M25 x 1.0	32.00	17.10	43.90	42.20	48.00
19	M28 x 1.0	35.40	17.80	48.80	46.70	50.80
21	M31 x 1.0	39.30	18.10	50.10	49.70	50.80
23	M34 x 1.0	41.55	18.70	52.60	52.20	50.80
25	M37 x 1.0	46.12	19.40	54.00	53.70	50.80



CABLE CLAMP TYPE A



CABLE CLAMP TYPE D

TABLE- II CABLE CLAMP TYPE A (MS3057A)			
DASH NO	CABLE ENTRY	K MAX	V MAX
	MAX		
03	6.40	21.40	11.10
04	7.90	23.00	11.10
06	11.10	27.80	12.70
08	14.30	30.20	14.30
10	15.90	32.60	14.30
12	19.10	38.10	14.30
16	23.80	43.70	16.70
20	31.80	52.40	16.70
24	34.90	58.70	16.70
28	41.30	69.10	30.20
32	47.60	75.40	30.20
40	60.30	89.70	28.60

TABLE- III CABLE CLAMP TYPE D (MS3057D)				
DASH NO	CABLE ENTRY		K MAX	V MAX
	MIN	MAX		
04	3.20	7.90	24.30	19.80
06	6.40	11.10	29.10	19.80
08	9.80	14.30	33.80	19.80
10	8.90	15.90	33.80	19.80
12	12.70	19.10	39.40	20.60
16	15.90	23.80	45.00	23.00
20	22.20	31.80	53.70	27.70
24	25.40	34.90	60.00	28.50
28	31.80	41.30	70.40	35.50
32	36.50	47.60	76.70	35.50

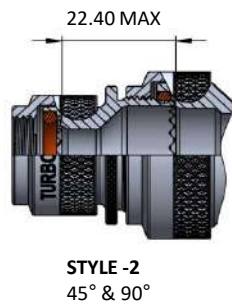


SERIES 110-01

TABLE- IV MATERIAL AND FINISH

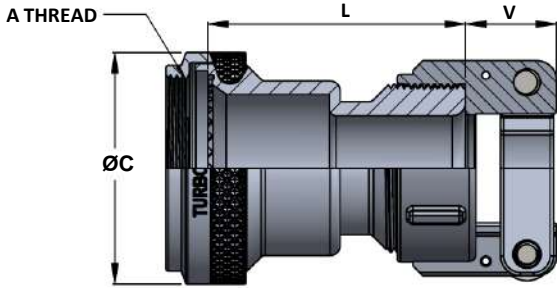
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

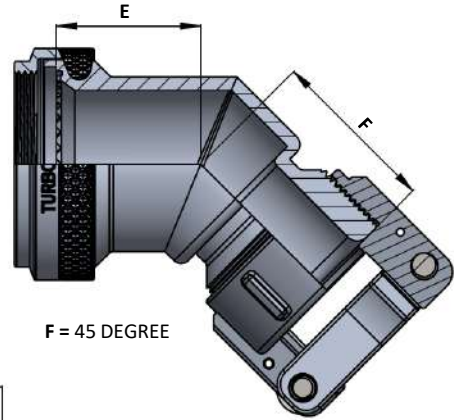


- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.

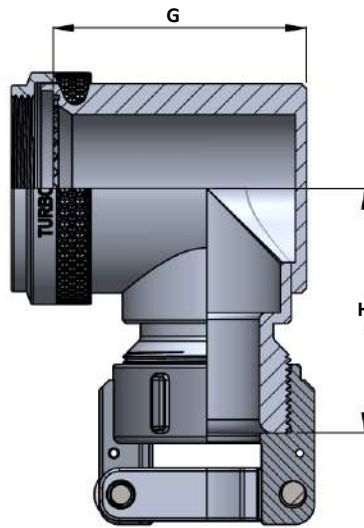
SERIES 110-02



S = STRAIGHT



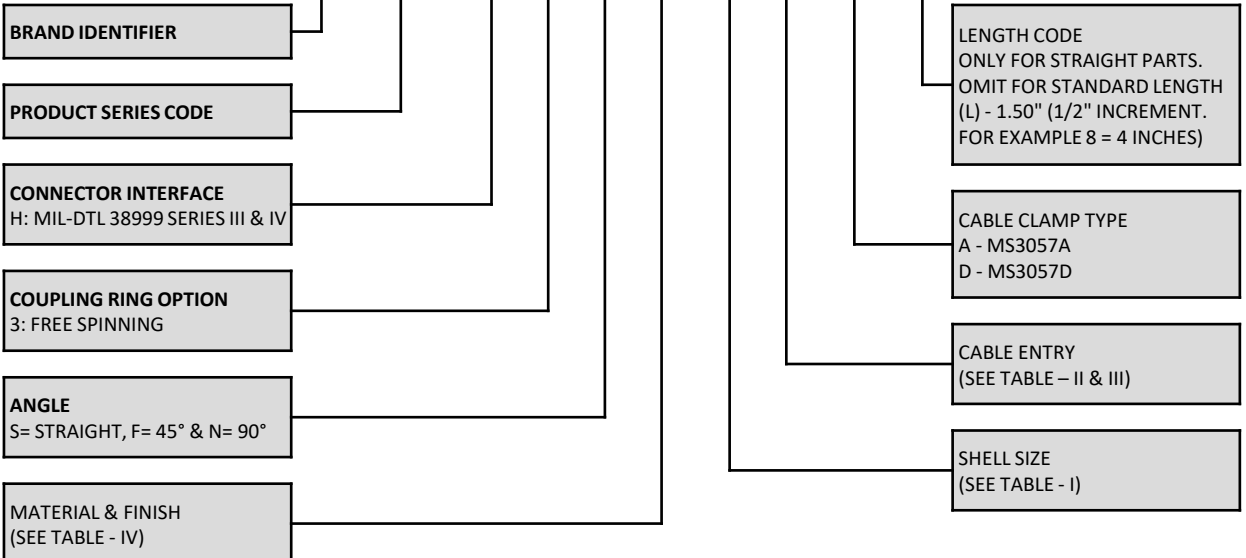
F = 45 DEGREE



N = 90 DEGREE

ORDERING INFORMATION

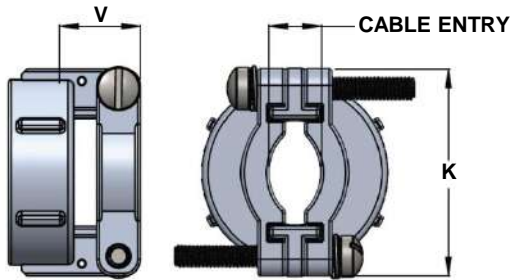
TB 110-02 - H 3 N W - 17 07 - A - 6



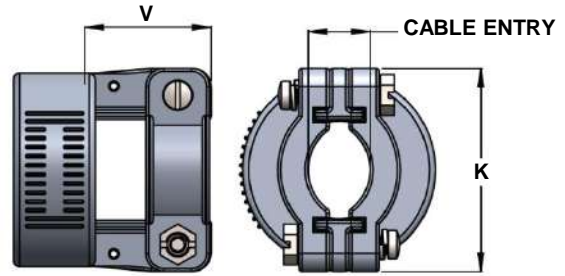
SERIES 110-02

TABLE I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS			
		ØC MAX	E MAX	F MAX	G MAX	H MAX
09	M12 x 1.0	19.00	14.10	22.40	27.70	29.70
11	M15 x 1.0	21.80	14.90	23.10	28.70	31.20
13	M18 x 1.0	25.40	15.50	23.60	33.20	32.80
15	M22 x 1.0	29.30	16.50	24.40	39.20	34.30
17	M25 x 1.0	32.00	17.10	24.90	42.20	36.10
19	M28 x 1.0	35.40	17.80	25.40	46.70	36.80
21	M31 x 1.0	39.30	18.10	25.90	49.70	38.40
23	M34 x 1.0	41.55	18.70	26.70	52.20	39.90
25	M37 x 1.0	46.12	19.40	27.20	53.70	41.40



CABLE CLAMP TYPE A



CABLE CLAMP TYPE D

TABLE- II CABLE CLAMP TYPE A
(MS3057A)

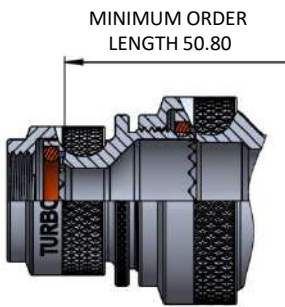
DASH NO	CABLE ENTRY	K MAX	V MAX
	MAX		
03	6.40	21.40	11.10
04	7.90	23.00	11.10
06	11.10	27.80	12.70
08	14.30	30.20	14.30
10	15.90	32.60	14.30
12	19.10	38.10	14.30
16	23.80	43.70	16.70
20	31.80	52.40	16.70
24	34.90	58.70	16.70
28	41.30	69.10	30.20
32	47.60	75.40	30.20
40	60.30	89.70	28.60

TABLE- III CABLE CLAMP TYPE D
(MS3057D)

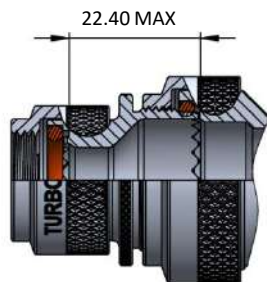
DASH NO	CABLE ENTRY		K MAX	V MAX
	MIN	MAX		
04	3.20	7.90	24.30	19.80
06	6.40	11.10	29.10	19.80
08	9.80	14.30	33.80	19.80
10	8.90	15.90	33.80	19.80
12	12.70	19.10	39.40	20.60
16	15.90	23.80	45.00	23.00
20	22.20	31.80	53.70	27.70
24	25.40	34.90	60.00	28.50
28	31.80	41.30	70.40	35.50
32	36.50	47.60	76.70	35.50

SERIES 110-02

TABLE- IV MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		



STYLE -2
STRAIGHT



STYLE -2
45° & 90°



- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.

SERIES 110-03

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
		ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX	N MAX
09	M12 x 1.0	19.00	14.10	48.20	27.70	44.90	17.40	44.90
11	M15 x 1.0	21.80	14.90	49.80	28.70	44.90	18.80	44.90
13	M18 x 1.0	25.40	15.50	51.30	33.20	45.20	20.60	45.20
15	M22 x 1.0	29.30	16.50	53.60	39.20	45.20	22.70	45.20
17	M25 x 1.0	32.00	17.10	56.40	42.20	46.20	24.30	46.20
19	M28 x 1.0	35.40	17.80	62.20	46.70	49.30	26.40	49.30
21	M31 x 1.0	39.30	18.10	61.20	49.70	47.50	27.10	47.50
23	M34 x 1.0	41.55	18.70	65.00	52.20	49.00	28.60	49.00
25	M37 x 1.0	46.12	19.40	65.00	53.70	49.20	30.10	49.20

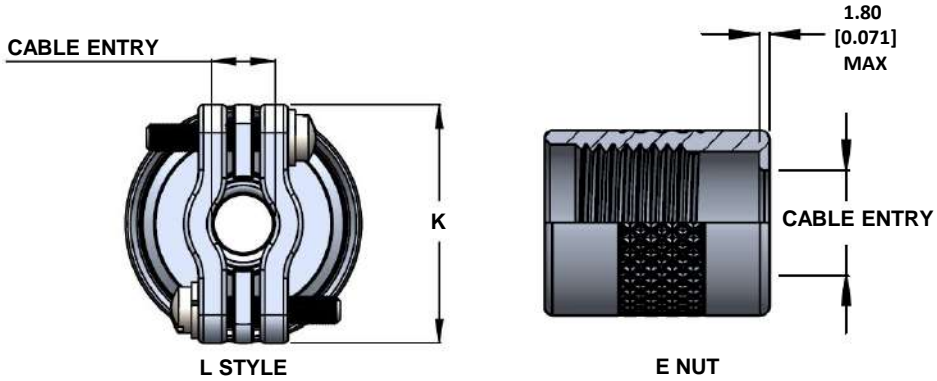
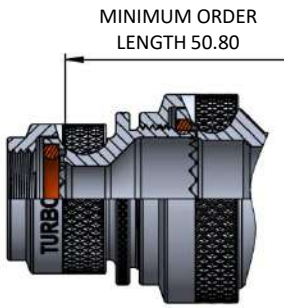


TABLE- II CABLE ENTRY

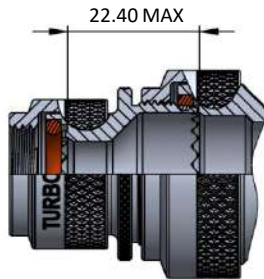
DASH NO	CABLE ENTRY		ØK MAX	Z MAX
	MIN	MAX		
01	1.60	3.20	19.80	29.50
02	3.20	6.40	24.60	29.50
04	6.40	9.50	27.00	29.50
06	7.90	12.70	29.40	29.50
08	11.10	15.90	31.80	29.50
10	14.30	19.10	34.90	29.50
12	17.40	22.20	38.10	29.50
14	20.60	25.40	41.30	29.50
16	23.80	28.60	44.50	29.50
18	27.00	31.80	47.60	29.50

SERIES 110-03

TABLE- III MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		



STYLE -2
STRAIGHT



STYLE -2
45° & 90°

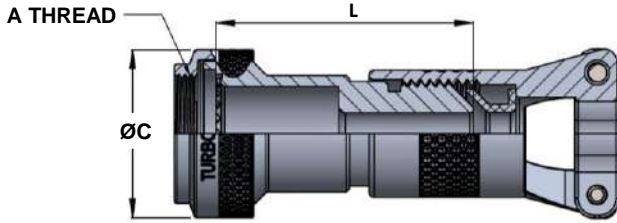


- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.

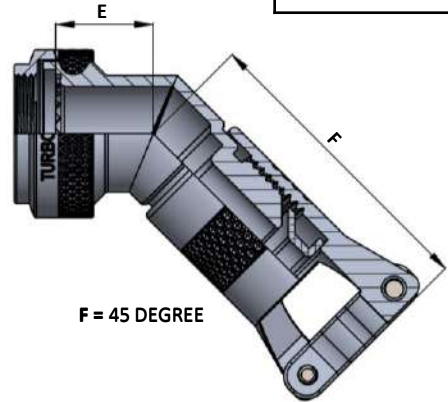
SERIES 110-04

MIL STYLE

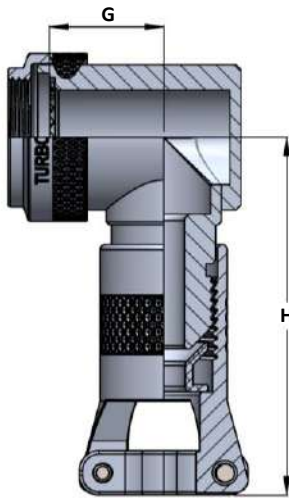
AS85049/19



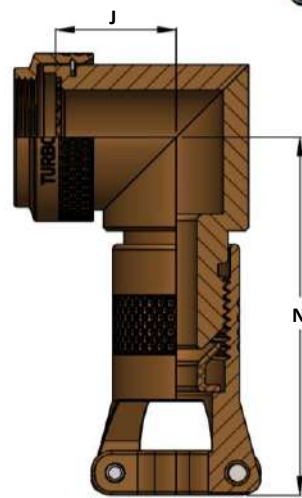
S = STRAIGHT



F = 45 DEGREE



N = 90 DEGREE



**N = 90 DEGREE
STAINLESS STEEL
NICKEL ALUMINIUM BRONZE**

ORDERING INFORMATION

TB 110-04 - H 3 N W - 17 07 - L - 6

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
H: MIL-DTL 38999 SERIES III & IV

COUPLING RING OPTION
3: FREE SPINNING

ANGLE
S= STRAIGHT, F= 45° & N= 90°

MATERIAL & FINISH
(SEE TABLE - III)

LENGTH CODE
ONLY FOR STRAIGHT PARTS.
OMIT FOR STANDARD LENGTH
(L) - 1.50" (1/2" INCREMENT.
FOR EXAMPLE 8 = 4 INCHES)

CABLE CLAMP TYPE
L - STYLE
E - E NUT

CABLE ENTRY
(SEE TABLE - II)

SHELL SIZE
(SEE TABLE - I)



SERIES 110-04

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS				FOR 90 DEGREE STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE	
			ØC MAX	E MAX	F MAX	G MAX	H MAX	J MAX
09	M12 x 1.0	19.00	14.10	80.01	27.70	87.88	17.40	87.88
11	M15 x 1.0	21.80	14.90	81.83	28.70	90.93	18.80	90.93
13	M18 x 1.0	25.40	15.50	83.06	33.20	91.44	20.60	91.44
15	M22 x 1.0	29.30	16.50	85.34	39.20	93.22	22.70	93.22
17	M25 x 1.0	32.00	17.10	88.14	42.20	95.50	24.30	95.50
19	M28 x 1.0	35.40	17.80	92.96	46.70	99.82	26.40	99.82
21	M31 x 1.0	39.30	18.10	92.96	49.70	99.82	27.10	99.82
23	M34 x 1.0	41.55	18.70	96.77	52.20	102.62	28.60	102.62
25	M37 x 1.0	46.12	19.40	96.77	53.70	102.62	30.10	102.62

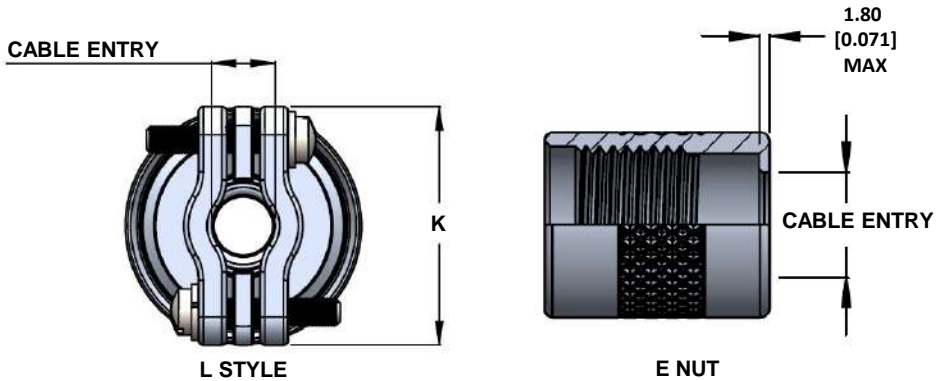
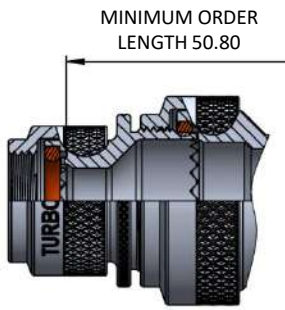


TABLE- II CABLE ENTRY

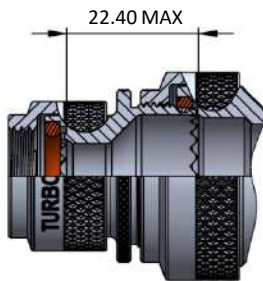
DASH NO	CABLE ENTRY		ØK MAX	Z MAX
	MIN	MAX		
01	1.60	3.20	19.80	29.50
02	3.20	6.40	24.60	29.50
04	6.40	9.50	27.00	29.50
06	7.90	12.70	29.40	29.50
08	11.10	15.90	31.80	29.50
10	14.30	19.10	34.90	29.50
12	17.40	22.20	38.10	29.50
14	20.60	25.40	41.30	29.50
16	23.80	28.60	44.50	29.50
18	27.00	31.80	47.60	29.50

SERIES 110-04

TABLE- III MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
S	STAINLESS STEEL	PASSIVATION
NU	NICKEL ALUMINIUM BRONZE	UNPLATED
NS	NICKEL ALUMINIUM BRONZE	SHOT BLASTED
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		



STYLE -2
STRAIGHT



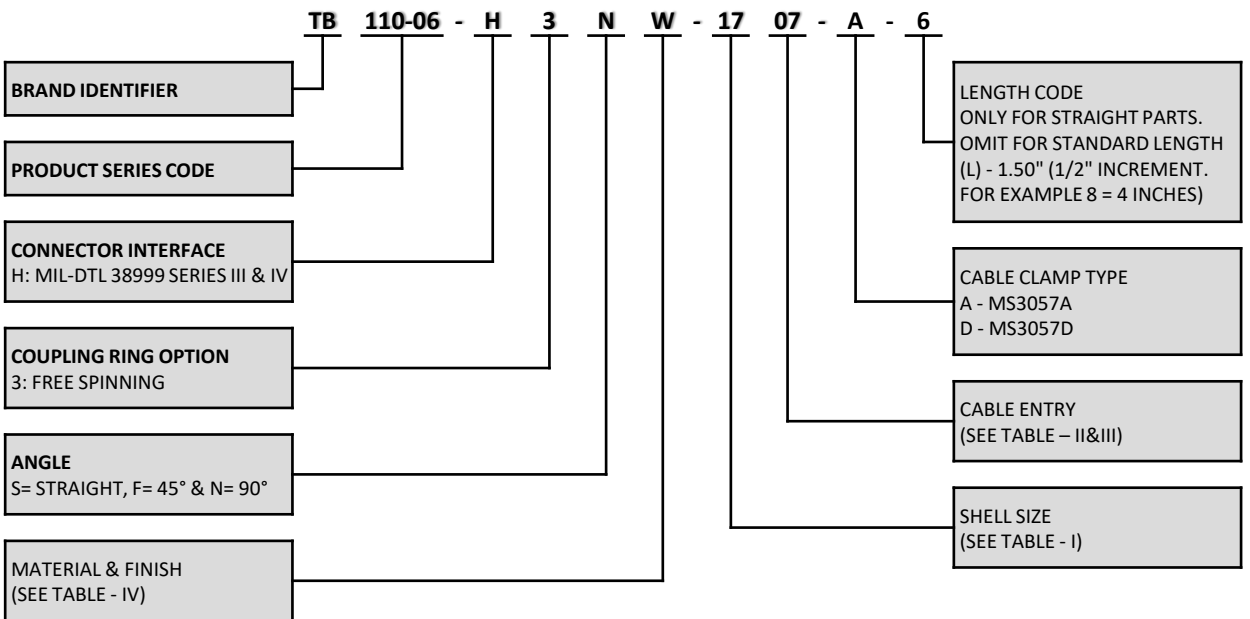
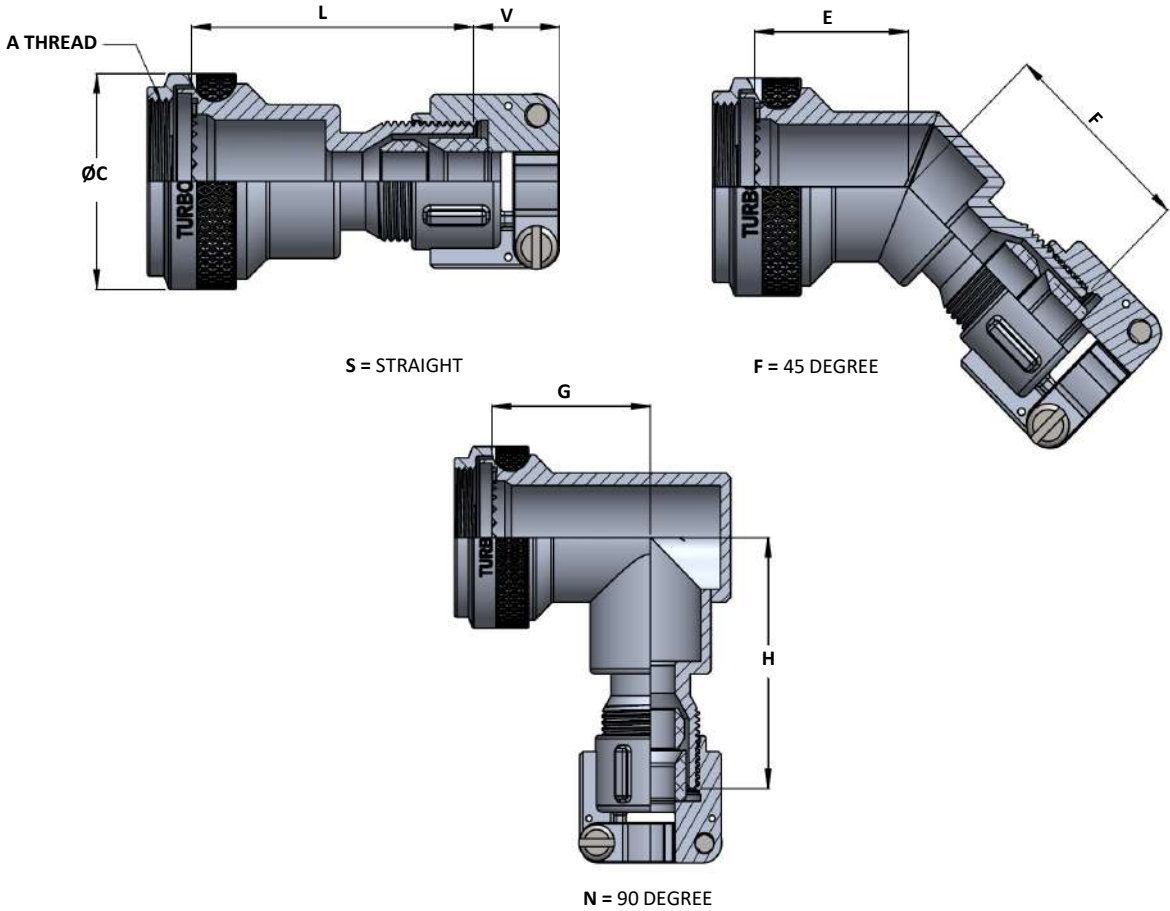
STYLE -2
45° & 90°



- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.

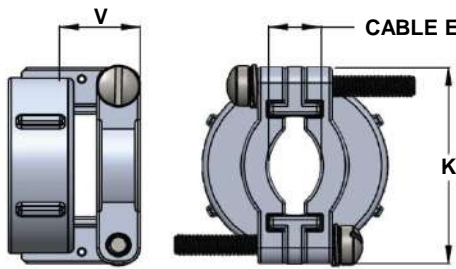
EMI/RFI CABLE CLAMP FREE SPINNING ADAPTER - NON ENVIRONMENTAL , SCREENED - MIL-DTL 38999 SERIES III & IV

SERIES 110-06

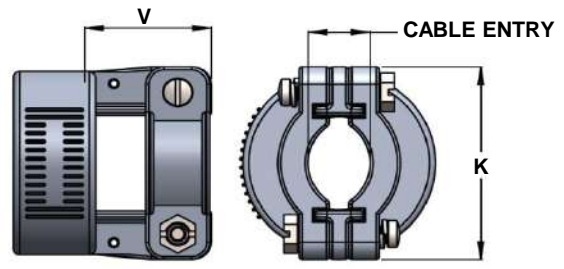


SERIES 110-06

TABLE- I BACKSHELL DIMENSIONS						
SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS			
		ØC MAX	E MAX	F MAX	G MAX	H MAX
09	M12 x 1.0	19.00	24.60	22.20	32.50	30.20
11	M15 x 1.0	21.80	26.20	23.80	35.70	33.30
13	M18 x 1.0	25.40	27.80	25.40	38.90	36.50
15	M22 x 1.0	29.30	29.40	27.00	42.10	39.70
17	M25 x 1.0	32.00	31.00	28.60	45.20	42.90
19	M28 x 1.0	35.40	31.80	29.40	48.40	46.00
21	M31 x 1.0	39.30	33.30	31.00	51.60	49.20
23	M34 x 1.0	41.55	34.10	31.80	54.80	52.40
25	M37 x 1.0	46.12	35.70	33.30	57.90	55.60



CABLE CLAMP TYPE A



CABLE CLAMP TYPE D

TABLE- II CABLE CLAMP TYPE A (MS3057A)

DASH NO	CABLE ENTRY	ØK MAX	ØV MAX
	MAX		
03	6.40	21.40	11.10
04	7.90	23.00	11.10
06	11.10	27.80	12.70
08	14.30	30.20	14.30
10	15.90	32.60	14.30
12	19.10	38.10	14.30
16	23.80	43.70	16.70
20	31.80	52.40	16.70
24	34.90	58.70	16.70
28	41.30	69.10	30.20
32	47.60	75.40	30.20
40	60.30	89.70	28.60

TABLE- III CABLE CLAMP TYPE D (MS3057D)

DASH NO	CABLE ENTRY		ØK MAX	ØV MAX
	MIN	MAX		
04	3.20	7.90	24.30	19.80
06	6.40	11.10	29.10	19.80
08	9.80	14.30	33.80	19.80
10	8.90	15.90	33.80	19.80
12	12.70	19.10	39.40	20.60
16	15.90	23.80	45.00	23.00
20	22.20	31.80	53.70	27.70
24	25.40	34.90	60.00	28.50
28	31.80	41.30	70.40	35.50
32	36.50	47.60	76.70	35.50

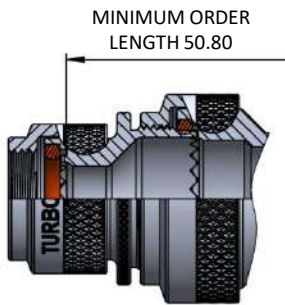


SERIES 110-06

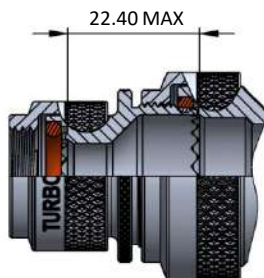
TABLE- IV MATERIAL AND FINISH

CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK

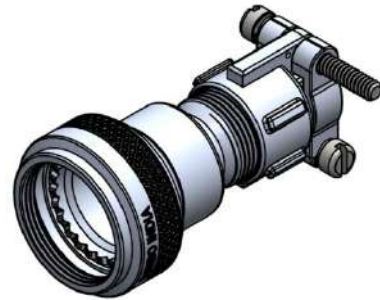
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS



STYLE -2
STRAIGHT

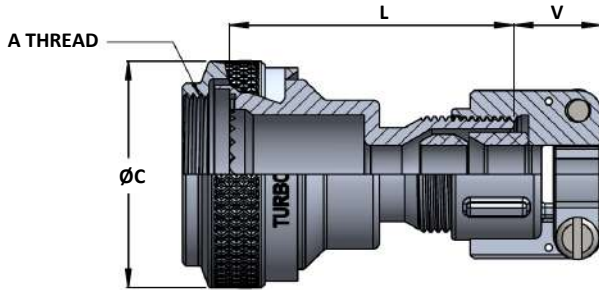


STYLE -2
45° & 90°

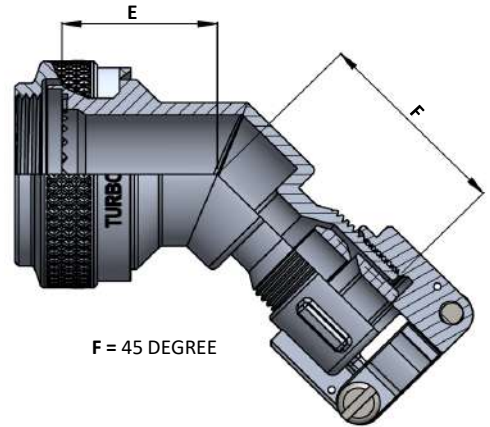


- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.

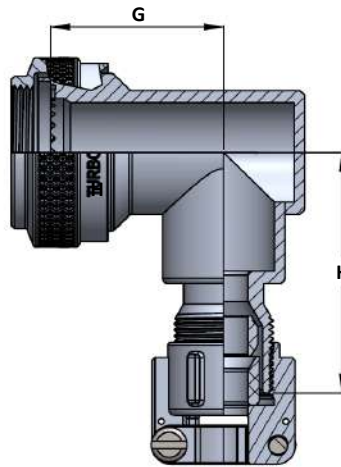
SERIES 110-06



S = STRAIGHT



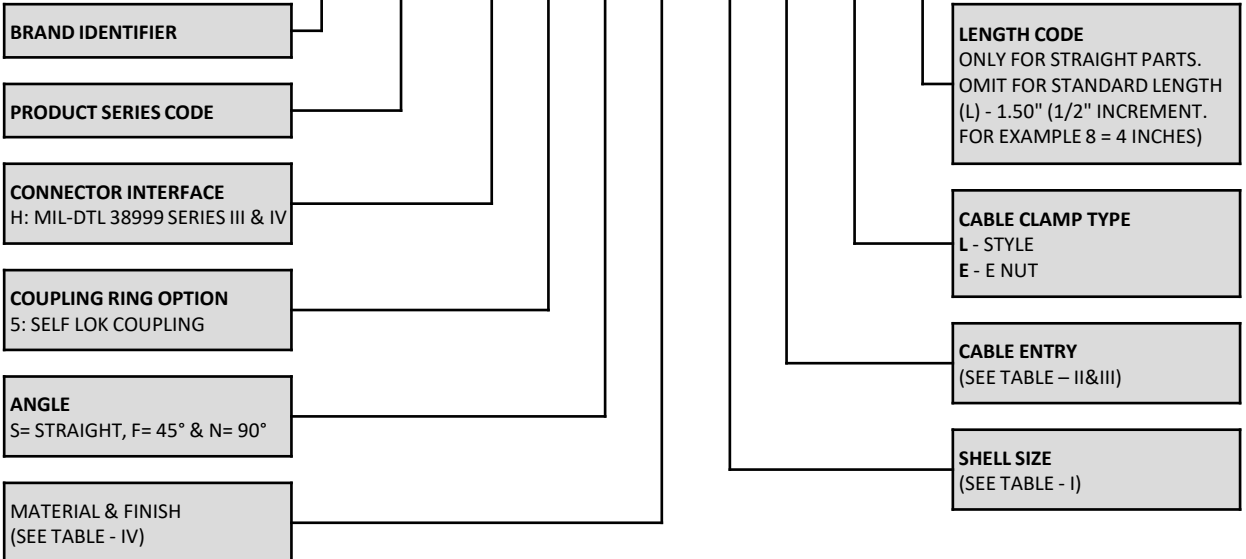
F = 45 DEGREE



N = 90 DEGREE

ORDERING INFORMATION

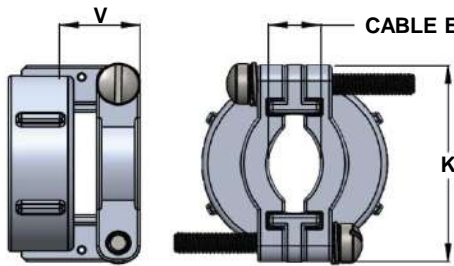
TB 110-06 - H 5 N W - 17 07 - L - 6



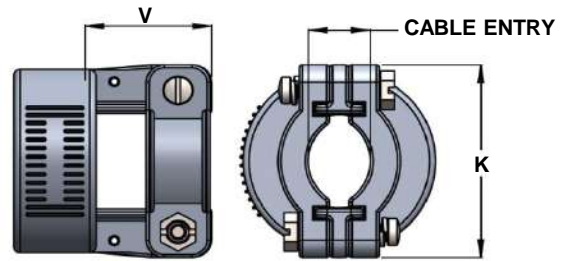
SERIES 110-06

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS			
		ØC MAX	E MAX	F MAX	G MAX	H MAX
09	M12 x 1.0	21.50	24.60	22.20	32.50	30.20
11	M15 x 1.0	24.65	26.20	23.80	35.70	33.30
13	M18 x 1.0	28.10	27.80	25.40	38.90	36.50
15	M22 x 1.0	31.50	29.40	27.00	42.10	39.70
17	M25 x 1.0	34.50	31.00	28.60	45.20	42.90
19	M28 x 1.0	37.50	31.80	29.40	48.40	46.00
21	M31 x 1.0	40.50	33.30	31.00	51.60	49.20
23	M34 x 1.0	43.50	34.10	31.80	54.80	52.40
25	M37 x 1.0	47.50	35.70	33.30	57.90	55.60



CABLE CLAMP TYPE A



CABLE CLAMP TYPE D

TABLE- II CABLE CLAMP TYPE A
(MS3057A)

DASH NO	CABLE ENTRY	ØK MAX	ØV MAX
	MAX		
03	6.40	21.40	11.10
04	7.90	23.00	11.10
06	11.10	27.80	12.70
08	14.30	30.20	14.30
10	15.90	32.60	14.30
12	19.10	38.10	14.30
16	23.80	43.70	16.70
20	31.80	52.40	16.70
24	34.90	58.70	16.70
28	41.30	69.10	30.20
32	47.60	75.40	30.20
40	60.30	89.70	28.60

TABLE- III CABLE CLAMP TYPE D
(MS3057D)

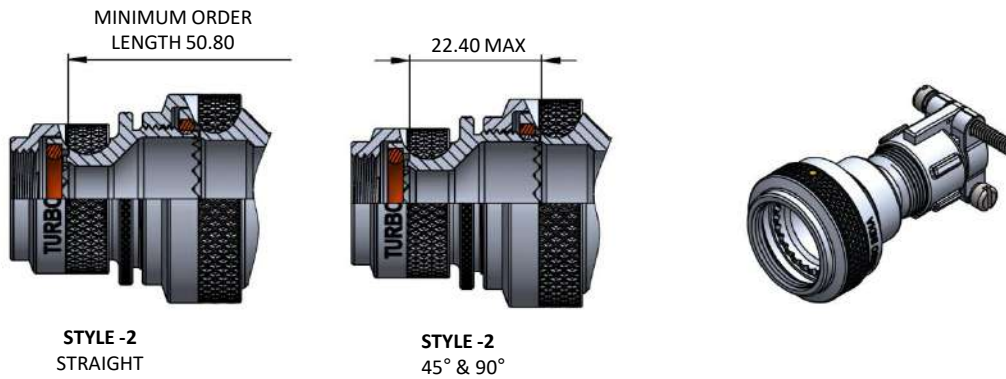
DASH NO	CABLE ENTRY		ØK MAX	ØV MAX
	MIN	MAX		
04	3.20	7.90	24.30	19.80
06	6.40	11.10	29.10	19.80
08	9.80	14.30	33.80	19.80
10	8.90	15.90	33.80	19.80
12	12.70	19.10	39.40	20.60
16	15.90	23.80	45.00	23.00
20	22.20	31.80	53.70	27.70
24	25.40	34.90	60.00	28.50
28	31.80	41.30	70.40	35.50
32	36.50	47.60	76.70	35.50

SERIES 110-06

TABLE- IV MATERIAL AND FINISH

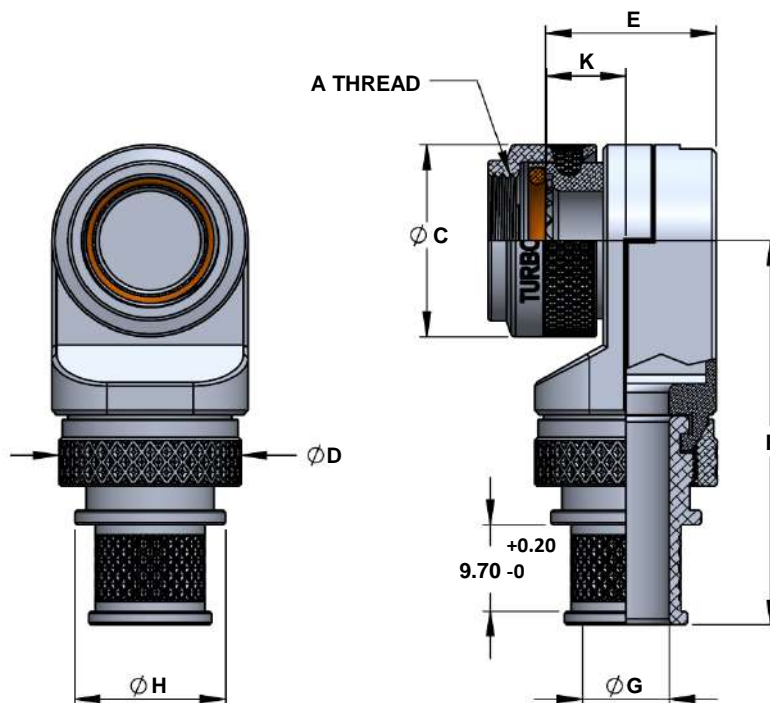
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS



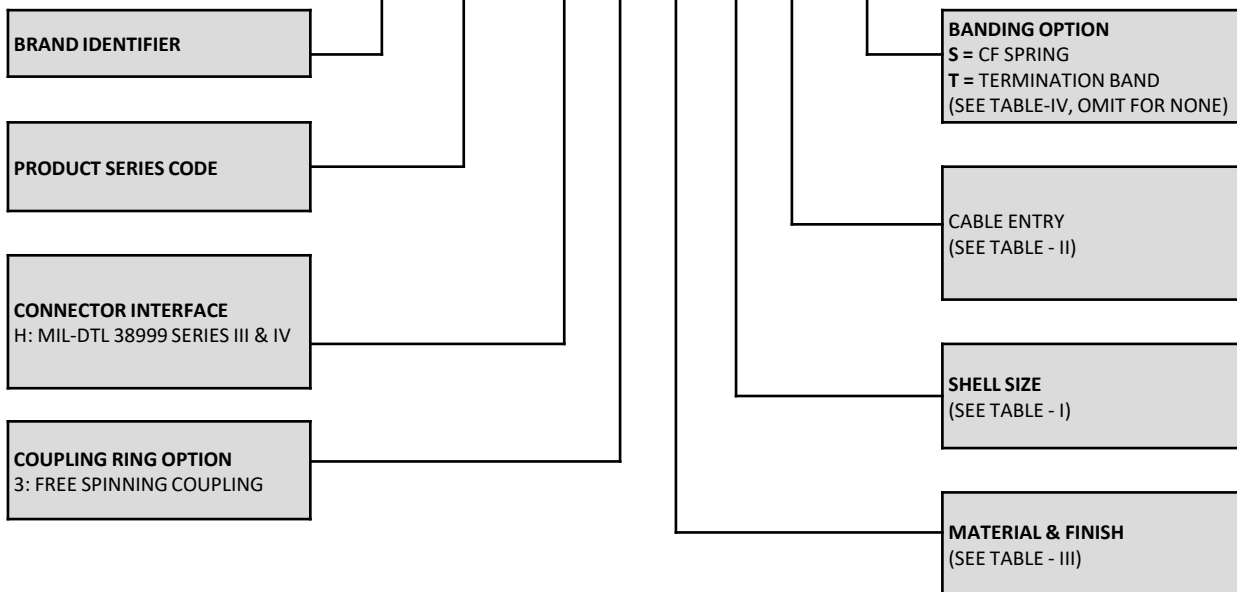
- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.

SERIES 120-01



ORDERING INFORMATION

TB 120-01 - H 3 W - 17 08 - T





SERIES 120-01

TABLE- I BACKSHELL DIMENSIONS							
SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS				MAX CABLE ENTRY
		ØC MAX	K MAX	E MAX	F MAX	ØD MAX	
09	M12 x 1.0	19.00	9.50	17.70	48.60	18.70	4
11	M15 x 1.0	21.80	9.50	19.00	52.70	21.70	6
13	M18 x 1.0	25.40	9.50	22.10	52.70	24.70	6
15	M22 x 1.0	29.30	10.50	22.10	58.80	24.70	8
17	M25 x 1.0	32.00	11.20	25.10	58.80	28.70	10
19	M28 x 1.0	35.40	17.00	30.00	61.50	28.70	10
21	M31 x 1.0	39.30	17.00	30.00	62.50	28.70	10
23	M34 x 1.0	41.55	16.10	33.50	65.00	31.70	12
25	M37 x 1.0	46.12	18.10	36.50	66.50	31.70	12

TABLE- II CABLE ENTRY		
DASH NO	ØG +0.20	ØH MAX
2	3.20	10.41
3	4.70	11.91
4	6.30	13.51
5	7.90	15.11
6	9.50	16.71
7	11.10	18.31
8	12.70	19.91
9	14.20	21.41
10	15.80	23.01
11	17.40	24.61
12	19.00	26.21

TABLE- III MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

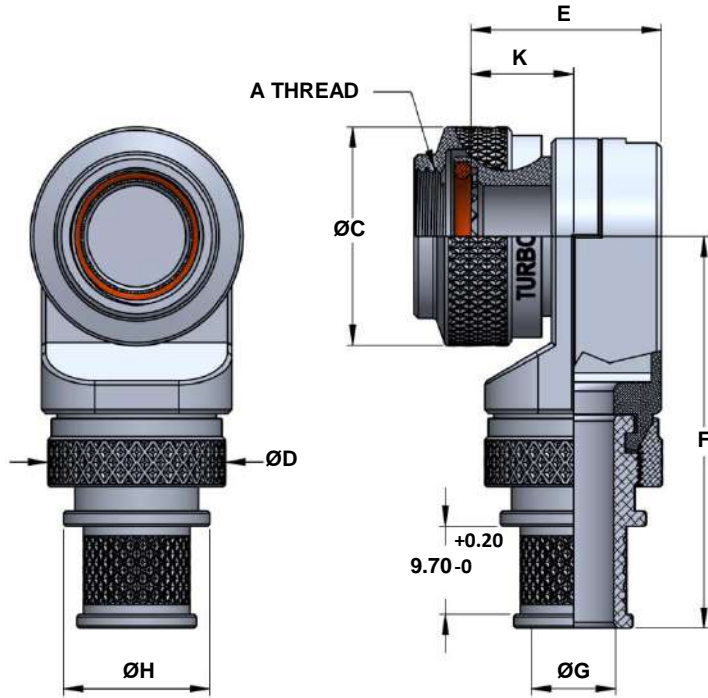
TABLE - IV BANDING OPTIONS	
 <p>S = CONSTANT FORCE SPRING</p>	 <p>T = TERMINATION BAND</p>
<p>FOR SELECTING SUITABLE TERMINATION ACCESSORY, GO TO ACCESSORIES SECTION IN CATALOG</p>	



- All dimensions are given in mm
- Product is configured up to the maximum entry size as per shell size. if maximum entry exceeded customization can be opted. for that final customer reference drawing will be supplied to the customer for confirmation from engineering department before going for production.



SERIES 120-01



ORDERING INFORMATION

TB 120-01 - H 5 W - 17 08 - T

BRAND IDENTIFIER

PRODUCT SERIES CODE

CONNECTOR INTERFACE
H: MIL-DTL 38999 SERIES III & IV

COUPLING RING OPTION
5: SELF LOCKING COUPLING

BANDING OPTION
S = CF SPRING
T = TERMINATION BAND
(SEE TABLE-IV, OMIT FOR NONE)

CABLE ENTRY
(SEE TABLE - II)

SHELL SIZE
(SEE TABLE - I)

MATERIAL & FINISH
(SEE TABLE - III)





SERIES 120-01

TABLE- I BACKSHELL DIMENSIONS							
SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS				MAX CABLE ENTRY
		ØC MAX	K MAX	E MAX	F MAX	ØD MAX	
09	M12 x 1.0	21.50	13.50	21.70	48.60	18.70	4
11	M15 x 1.0	24.65	13.50	23.00	52.70	21.70	6
13	M18 x 1.0	28.10	13.50	26.10	52.70	24.70	6
15	M22 x 1.0	31.50	14.50	26.10	58.80	24.70	8
17	M25 x 1.0	34.50	15.20	29.10	58.80	28.70	10
19	M28 x 1.0	37.50	21.00	34.00	61.50	28.70	10
21	M31 x 1.0	40.50	21.00	34.00	62.50	28.70	10
23	M34 x 1.0	43.50	20.10	37.50	65.00	31.70	12
25	M37 x 1.0	47.50	22.10	40.50	66.50	31.70	12

TABLE- II CABLE ENTRY		
DASH NO	ØG +0.20	ØH MAX
2	3.20	10.41
3	4.70	11.91
4	6.30	13.51
5	7.90	15.11
6	9.50	16.71
7	11.10	18.31
8	12.70	19.91
9	14.20	21.41
10	15.80	23.01
11	17.40	24.61
12	19.00	26.21

TABLE- III MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

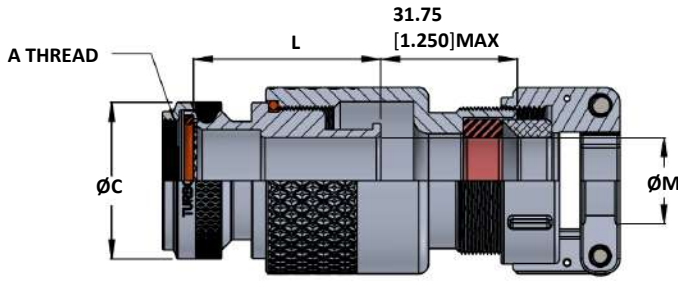
TABLE-IV BANDING OPTIONS	
 <p>S = CONSTANT FORCE SPRING</p>	 <p>T = TERMINATION BAND</p>
<p>FOR SELECTING SUITABLE TERMINATION ACCESSORY, GO TO ACCESSORIES SECTION IN CATALOG</p>	



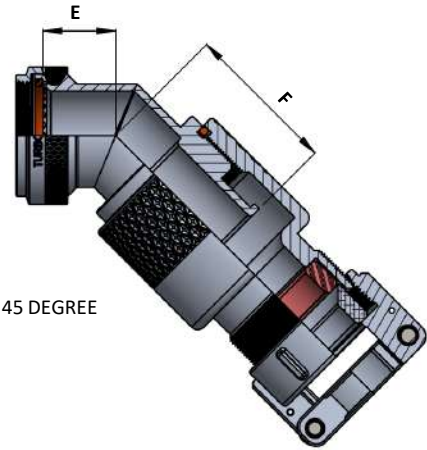
- All dimensions are given in mm
- Product is configured up to the maximum entry size as per shell size. if maximum entry exceeded customization can be opted. for that final customer reference drawing will be supplied to the customer for confirmation from engineering department before going for production.



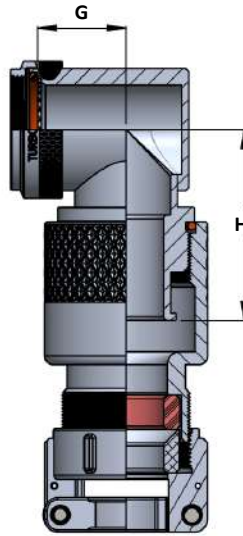
SERIES 160-01



S = STRAIGHT



F = 45 DEGREE



N = 90 DEGREE

ORDERING INFORMATION

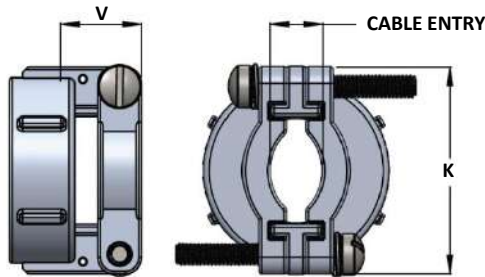
TB 160-01 - H 3 N W - 15 08 A - 6 - T

BRAND IDENTIFIER	TB	BANDING OPTION S = CF SPRING T = TERMINATION BAND (SEE TABLE-VI, OMIT FOR NONE)
PRODUCT SERIES CODE	160-01	LENGTH CODE ONLY FOR STRAIGHT PARTS. OMIT FOR STANDARD LENGTH (L) - 2.00" (1/2" INCREMENT. FOR EXAMPLE 8 = 4 INCHES)
CONNECTOR INTERFACE H: MIL-DTL 38999 SERIES III & IV	- H	CABLE CLAMP TYPE A - MS3057A D - MS3057D
COUPLING RING OPTION 3: FREE SPINNING	3	CABLE ENTRY (SEE TABLE - II & III)
ANGLE S= STRAIGHT, F= 45° & N= 90°	N	SHELL SIZE (SEE TABLE - I)
MATERIAL & FINISH (SEE TABLE - V)	W - 15	
	08	
	A - 6	
	- T	

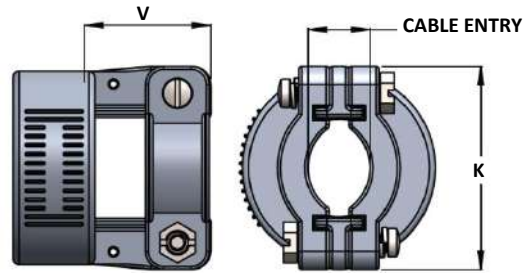


SERIES 160-01

TABLE- I BACKSHELL DIMENSIONS						
SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS			
		ØC MAX	E MAX	F MAX	G MAX	H MAX
09	M12 x 1.0	19.00	20.00	35.10	23.00	38.10
11	M15 x 1.0	21.80	21.00	35.80	24.50	39.40
13	M18 x 1.0	25.40	21.50	36.30	26.10	40.90
15	M22 x 1.0	29.30	22.00	37.10	27.30	42.70
17	M25 x 1.0	32.00	23.00	37.60	28.90	44.20
19	M28 x 1.0	35.40	23.50	37.80	29.90	44.70
21	M31 x 1.0	39.30	24.00	38.40	31.40	46.20
23	M34 x 1.0	41.55	24.50	39.40	32.90	48.30
25	M37 x 1.0	46.12	25.00	40.10	34.40	50.00



CABLE CLAMP TYPE A



CABLE CLAMP TYPE D

TABLE- II CABLE CLAMP TYPE A (MS3057A)			
DASH NO	CABLE ENTRY	K MAX	V MAX
	MAX		
03	6.40	21.40	11.10
04	7.90	23.00	11.10
06	11.10	27.80	12.70
08	14.30	30.20	14.30
10	15.90	32.60	14.30
12	19.10	38.10	14.30
16	23.80	43.70	16.70
20	31.80	52.40	16.70
24	34.90	58.70	16.70
28	41.30	69.10	30.20
32	47.60	75.40	30.20
40	60.30	89.70	28.60

TABLE- III CABLE CLAMP TYPE D (MS3057D)				
DASH NO	CABLE ENTRY		K MAX	V MAX
	MIN	MAX		
04	3.20	7.90	24.30	19.80
06	6.40	11.10	29.10	19.80
08	9.80	14.30	33.80	19.80
10	8.90	15.90	33.80	19.80
12	12.70	19.10	39.40	20.60
16	15.90	23.80	45.00	23.00
20	22.20	31.80	53.70	27.70
24	25.40	34.90	60.00	28.50
28	31.80	41.30	70.40	35.50
32	36.50	47.60	76.70	35.50

SERIES 160-01

TABLE- IV CABLE ENTRY

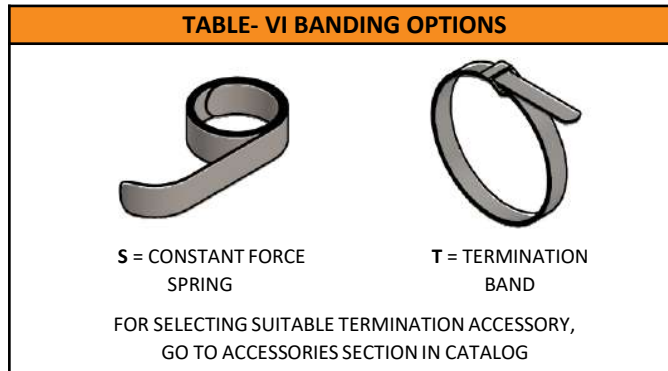
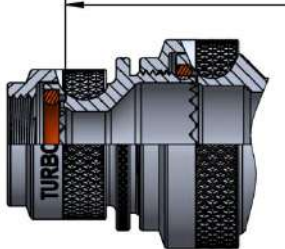
DASH NO	ØM +0.20	DASH NO	ØM +0.20
02	3.20	14	22.20
03	4.70	15	23.80
04	6.30	16	25.40
05	7.90	17	27.00
06	9.50	18	28.60
07	11.10	19	30.20
08	12.70	20	31.80
09	14.20	21	33.30
10	15.80	22	35.00
11	17.40	23	36.50
12	19.00	24	38.10
13	20.60		

TABLE- V MATERIAL AND FINISH

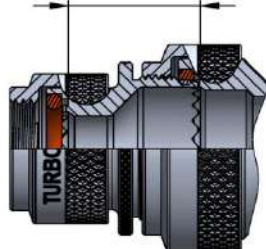
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK

SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS

TABLE- VI BANDING OPTIONS

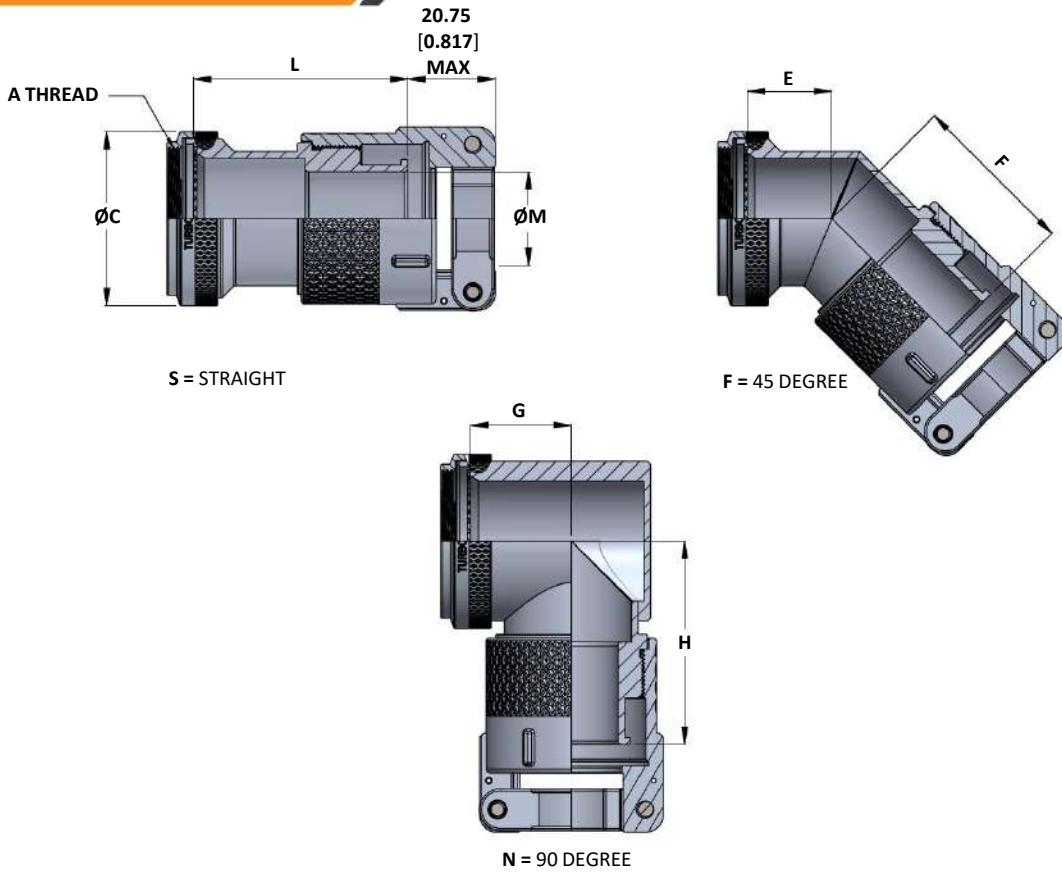
MINIMUM ORDER
LENGTH 63.50STYLE -2
STRAIGHT

22.40 MAX

STYLE -2
45° & 90°

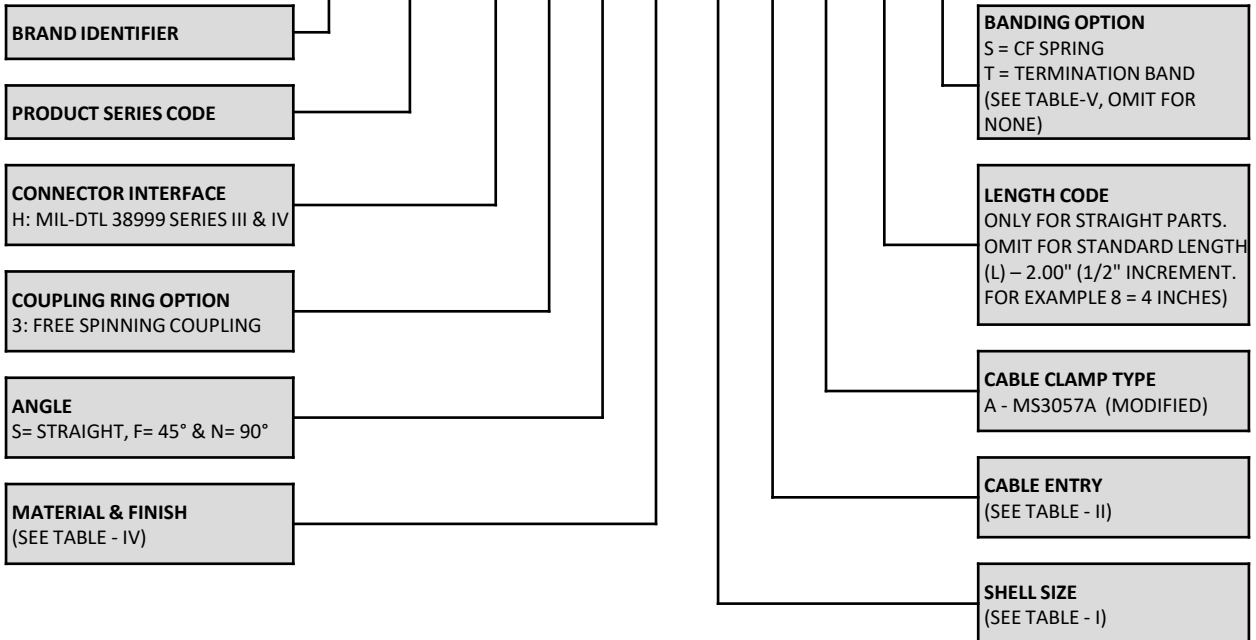
- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.

SERIES 160-02



ORDERING INFORMATION

TB 160-02 - H 3 N W - 15 08 A - 6 - T

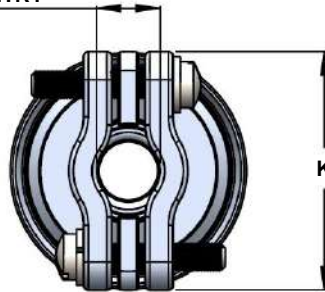


SERIES 160-02

TABLE- I BACKSHELL DIMENSIONS

SHELL SIZE	A THREAD	RING DIMENSION	ELBOW DIMENSIONS			
		ϕC MAX	E MAX	F MAX	G MAX	H MAX
09	M12 x 1.0	19.00	20.00	35.10	23.00	38.10
11	M15 x 1.0	21.80	21.00	35.80	24.50	39.40
13	M18 x 1.0	25.40	21.50	36.30	26.10	40.90
15	M22 x 1.0	29.30	22.00	37.10	27.30	42.70
17	M25 x 1.0	32.00	23.00	37.60	28.90	44.20
19	M28 x 1.0	35.40	23.50	37.80	29.90	44.70
21	M31 x 1.0	39.30	24.00	38.40	31.40	46.20
23	M34 x 1.0	41.55	24.50	39.40	32.90	48.30
25	M37 x 1.0	46.12	25.00	40.10	34.40	50.00

CABLE ENTRY



CABLE CLAMP

TABLE- II CABLE CLAMP TYPE A
(MS3057A MODIFIED)



DASH NO	CABLE ENTRY	K MAX
	MAX	
03	6.40	21.40
04	7.90	23.00
06	11.10	27.80
08	14.30	30.20
10	15.90	32.60
12	19.10	38.10
16	23.80	43.70
20	31.80	52.40
24	34.90	58.70
28	41.30	69.10
32	47.60	75.40
40	60.30	89.70

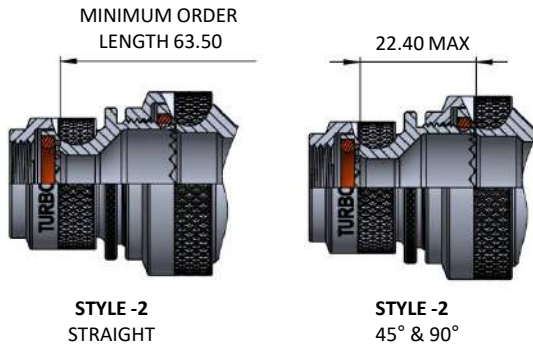
TABLE- III CABLE ENTRY

DASH NO	$\phi M +0.20$	DASH NO	$\phi M +0.20$
02	3.20	14	22.20
03	4.70	15	23.80
04	6.30	16	25.40
05	7.90	17	27.00
06	9.50	18	28.60
07	11.10	19	30.20
08	12.70	20	31.80
09	14.20	21	33.30
10	15.80	22	35.00
11	17.40	23	36.50
12	19.00	24	38.10
13	20.60		

SERIES 160-02

TABLE- IV MATERIAL AND FINISH		
CODE	MATERIAL	FINISH
W	ALUMINIUM ALLOY	CADMIUM OLIVE DRAB
N	ALUMINIUM ALLOY	ELECTROLESS NICKEL
Z	ALUMINIUM ALLOY	ZINC NICKEL BLACK
VO	ALUMINIUM ALLOY	ZINC COBALT-OLIVE DRAB
VB	ALUMINIUM ALLOY	ZINC COBALT-BLACK
SEE PAGE NO 15 FOR FULL RANGE OF FINISH OPTIONS		

TABLE- V BANDING OPTIONS	
	
S = CONSTANT FORCE SPRING	T = TERMINATION BAND
FOR SELECTING SUITABLE TERMINATION ACCESSORY, GO TO ACCESSORIES SECTION IN CATALOG	



- All dimensions are given in mm
- When maximum cable entry is exceeded , Style-2 will be supplied. In that condition, dimensions E,F,G and H will not apply.

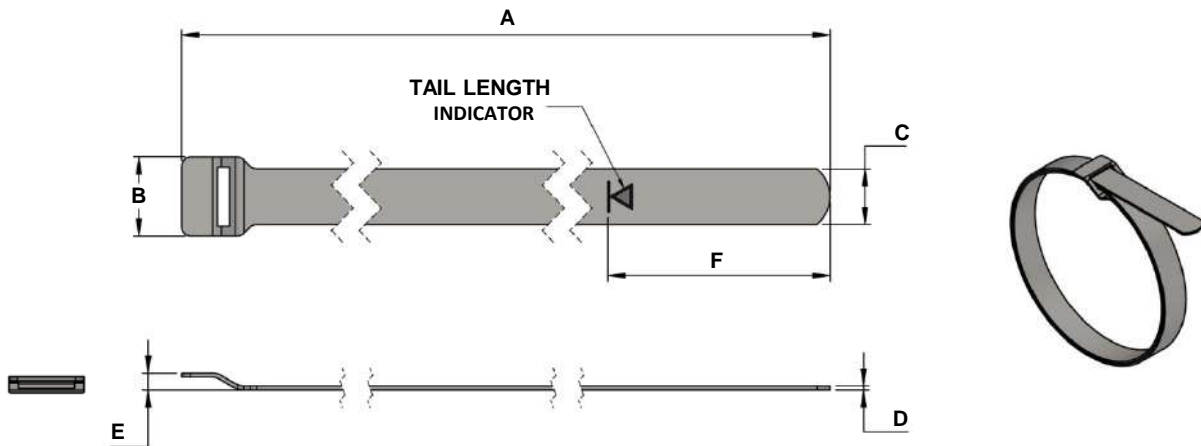
TERMINATION ACCESSORIES

Termination accessories are nothing but, elements which we used for terminating EMI/RFI braids to backshell. There is lot of methods for it like Band Termination, Spring Termination, Memory ring Termination etc.

You can choose your termination accessory for your backshell from this catalogue and integrate in respective product part numbering code to avail the elements in your backshell kit.

SERIES 128

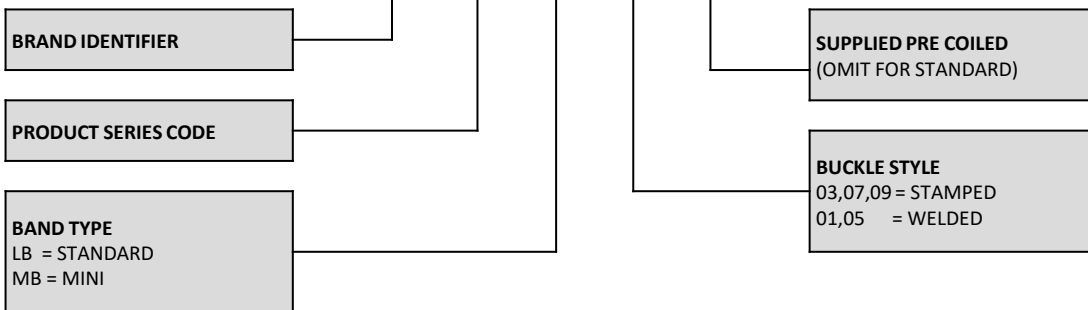
STAMPED BUCKLE OPTION



PART NUMBER	A ± 1.52mm (0.060")	B ± 0.79mm (0.031")	C ± 0.26mm (0.010")	D REF	E REF	F REF
TB-128LB-03	361.95 (14.25)	8.89 (0.350)	6.35 (0.250)	0.51 (0.020)	3.30 (0.130)	51.59 (2.031)
TB-128LB-03-01	361.95 (14.25)	8.89 (0.350)	6.35 (0.250)	0.51 (0.020)	3.30 (0.130)	51.59 (2.031)
TB-128MB-07	206.38 (8.125)	4.95 (0.195)	3.05 (0.120)	0.38 (0.015)	1.35 (0.053)	51.59 (2.031)
TB-128MB-07-01	206.38 (8.125)	4.95 (0.195)	3.05 (0.120)	0.38 (0.015)	1.35 (0.053)	51.59 (2.031)
TB-128MB-09	361.95 (14.25)	4.95 (0.195)	3.05 (0.120)	0.38 (0.015)	1.35 (0.053)	51.59 (2.031)
TB-128MB-09-01	361.95 (14.25)	4.95 (0.195)	3.05 (0.120)	0.38 (0.015)	1.35 (0.053)	51.59 (2.031)

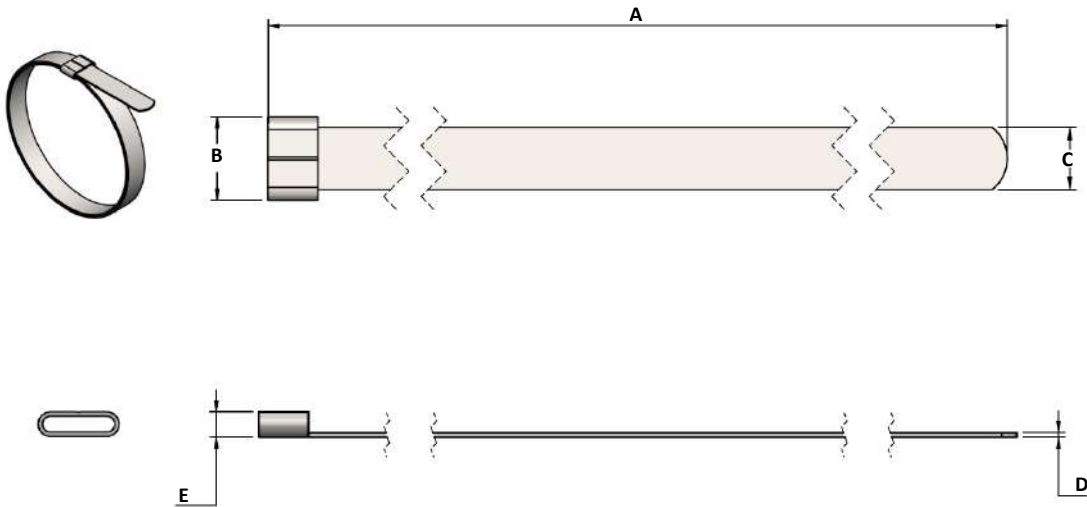
ORDERING INFORMATION

TB - 128 LB - 03 - 01



SERIES 128

WELDED BUCKLE OPTION



PART NUMBER	A ± 1.52mm (0.060")	B ± 0.79mm (0.031")	C ± 0.26mm (0.010")	D REF	E REF
TB-128LB-01	355.60 (14.00)	8.33 (0.328)	6.22 (0.245)	0.50 (0.019)	2.54 (0.100)
TB-128LB-01-01	355.60 (14.00)	8.33 (0.328)	6.22 (0.245)	0.50 (0.019)	2.54 (0.100)
TB-128MB-05	241.30 (9.50)	5.03 (0.198)	2.99 (0.118)	0.40 (0.015)	2.03 (0.080)
TB-128MB-05-01	241.30 (9.50)	5.03 (0.198)	2.99 (0.118)	0.40 (0.015)	2.03 (0.080)

POPULAR CROSS REFERENCE WITH TURBO

DESCRIPTION	TURBO INDIA	M85049/128	GLENAIR
STAMPED BUCKLE STANDARD BAND STRAIGHT	TB-128LB-03	-3	600-052
STAMPED BUCKLE STANDARD BAND PRE COILED	TB-128LB-03-01	-4	600-052-1
STAMPED BUCKLE MINI BAND STRAIGHT	TB-128MB-07	-7	600-057
STAMPED BUCKLE MINI BAND PRE COILED	TB-128MB-07-01	-8	600-057-1
STAMPED BUCKLE MINI BAND EXTENDED STRAIGHT	TB-128MB-09	-	600-083
STAMPED BUCKLE MINI BAND EXTENDED & PRE COILED	TB-128MB-09-01	-	600-083-1
WELDED BUCKLE STANDARD BAND STRAIGHT	TB-128LB-01	-1	-
WELDED BUCKLE STANDARD BAND PRE COILED	TB-128LB-01-01	-2	-
WELDED BUCKLE MINI BAND STRAIGHT	TB-128MB-05	-5	-
WELDED BUCKLE MINI BAND PRE COILED	TB-128MB-05-01	-6	-

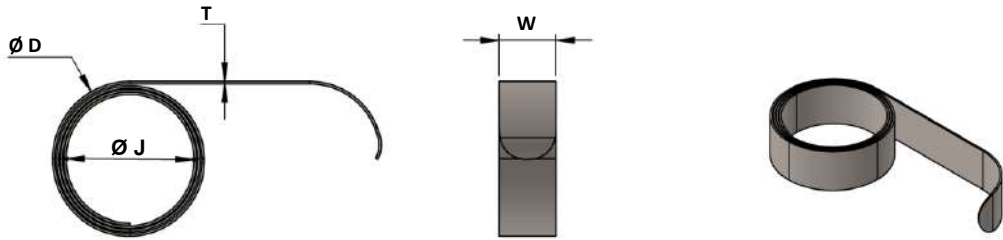
- Dimensions specified in parenthesis are in inches
- Optional brand marking available – contact sales@turboindia.co.in for details.
- Material : 300 series stainless steel passivated.

SERIES SB

STAINLESS STEEL SPRING BAND OPTION

- Re-usable and self tensioning to secure both overall and individual braid termination.
- Easy to install - requires no tooling while providing a high level of tensile strength to the assembly.
- Suitable for corrosive environments and are not affected by vibration, shock or extreme temperatures.

Use **TI Order Code 'S'** to have a constant force spring band included with the adapter. We will determine the appropriate size needed based on the Cable Entry called out on the Part Number.



SPRING DIMENSIONS						
PART NUMBER	Ø J	Ø D (+0.00 / -1.0)	T (±0.01)	W (+0.05/-0.13)	SPRING LENGTH (±5)	NO OF TURNS
TBSB-050	7.10 (-0.55)	8.50	0.11	9.53	107.90	4.25
TBSB-100	8.20 (-0.55)	9.10	0.11	9.53	119.00	4.25
TBSB-200	12.70 (-0.85)	14.40	0.18	9.53	127.00	3.00
TBSB-300	18.46 (-1.30)	19.51	0.26	9.53	232.00	4.25
TBSB-400	25.91 (-2.00)	26.86	0.31	9.53	217.50	3.50

SERIES SB

SPRING SELECTION CHART AS PER ENTRY SIZE OF BACKSHELL		
BACKSHELL ENTRY CODE	ENTRY DIA IN MM	SPRING CODE
03	4.70	TBSB-050
04	6.30	TBSB-050
05	7.90	TBSB-100
06	9.50	TBSB-100
07	11.10	TBSB-100
08	12.70	TBSB-200
09	14.20	TBSB-200
10	15.80	TBSB-200
11	17.40	TBSB-200
12	19.00	TBSB-300
13	20.60	TBSB-300
14	22.20	TBSB-300
15	23.80	TBSB-300
16	25.40	TBSB-300
17	27.00	TBSB-400
18	28.60	TBSB-400
19	30.20	TBSB-400
20	31.80	TBSB-400
21	33.30	TBSB-400
22	35.00	TBSB-400
23	36.50	TBSB-400
24	38.10	TBSB-400

OUR FACILITIES

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PLATING SHOP



ASSEMBLY



QUALITY



STORES





Turbo India Interconnect Solutions(TICS), built on the foundations of a 25 plus year interconnect components manufacturing legacy of Turbo India, is where you can find a complete solution for your interconnect needs. We strive for “CUSTOMER DELIGHT” through strict adherence to Customer and Product requirements and by maintaining an open-door for customizations.

For enquiries, the customer may either propose a suitable part number, based on the ordering information provided, or the TI Sales & Engineering Teams can assist in choosing the best possible configuration, based on applications, from the standard solutions available or propose a custom solution with part numbers and lead times, at the earliest.

For supply of standard solutions referred to in this catalog, an order may be placed after generating the required part numbers from the ordering information page.

For any orders or enquiries you may mail us on sales@turboindia.co.in





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