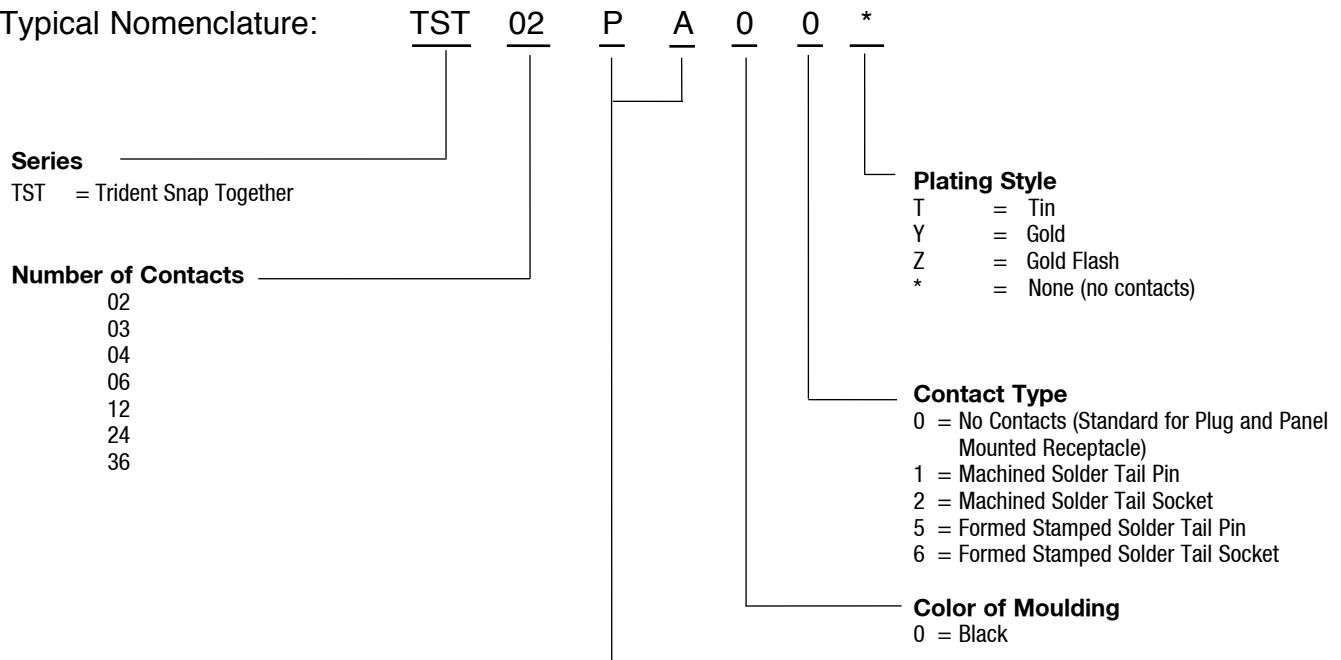


How to Order

Typical Nomenclature:

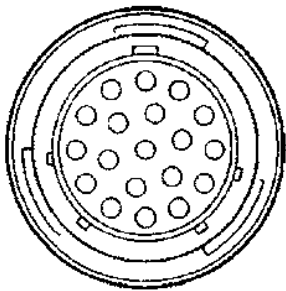
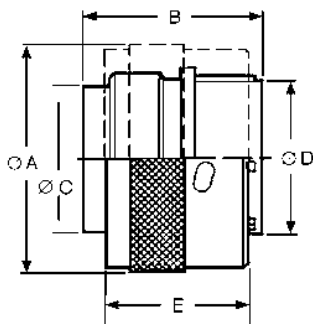


Type	
PA	Plug; Free
RB	Receptacle; For PCB, with Mounting Lugs
RA	Receptacle; Panel Mounting (delivered without any contacts)
RR	Receptacle, For PCB, 90° Right Angle Mounting (only for 12 position connectors with machined contacts)
AS	Accessory; Receptacle Shroud
AH	Accessory; Plug Strain Relief Hood

Test Specifications

The table below summarizes the results of key tests. Data is applicable to standard connectors with standard contacts. Variations may affect this data, so please consult factory for further information on your requirements.

Test	Method	Criteria of Acceptance
Dielectric Withstanding Voltage	2000 V ac	No breakdown
Thermal Shock	-55°C to +125°C (-67°F to +257°F), 5 cycles	No physical damage
Physical Shock	50 g's peak, 3 axes, 11 millisecond duration half-sine pulse	No physical damage. No loss of continuity >1 sec
Vibration	10 g's peak, 10-500 Hz, 9 hours	No physical damage, No loss of continuity >1 sec
Durability	500 cycles of mating and unmating, 500 mating cycles max	No mechanical or electrical defects
Salt Spray	48 hours	Shall be capable of mating and unmating and meet contact resistance requirements
High Temperature Endurance	1000 hours at 125°C (+257°F)	Insulation Resistance > 100 MΩ
Humidity Steady State	RH 90-95%, 40°C (+104°F), 504 hours	Insulation Resistance > 100 MΩ
Moisture Resistance	10 Cycles	Insulation Resistance > 100 MΩ



Reversed Plug
for Socket Contacts

- Mates with Reversed Receptacles, see page 32.
- Accepts socket contacts, see page 64.
- Discriminating (Keying) Pins available, see page 73.
- Can be water sealed to IP65.

Shell Size	Number of Contacts	Single Piece Connector		Dimensions					Accessory Thread
		Part Number	Nomenclature	$\varnothing A \pm 0,20 (.008)$	B max.	$\varnothing C \pm 0,15 (.005)$	$\varnothing D \pm 0,15 (.005)$	E	
10	4	192926-0500	TR1004PFS1NB	21,60 (.850)	26,10 (1)	11,00 (.433)	12,20 (.480)	$19,10 \pm 0,20 (.751 \pm .007)$	9/16 - 24 UNEF
12	8	192926-0510	TR1208PFS1NB	24,80 (.976)	25,60 (1)	13,90 (.547)	15,10 (.594)	$19,10 \pm 0,20 (.751 \pm .007)$	11/16 - 24 UNEF
14	12	192926-0520	TR1412PFS1NB	28,00 (1)	26,80 (1)	17,10 (.673)	18,30 (.720)	$19,10 \pm 0,20 (.751 \pm .007)$	13/16 - 20 UNEF
16	19	192926-0530	TR1619PFS1NB	31,20 (1)	27,60 (1)	20,00 (.787)	21,40 (.842)	$19,10 \pm 0,20 (.751 \pm .007)$	15/16 - 20 UNEF
18	7	192990-1390	TR1807PFS1NB	34,30 (1)	31,50 (1)	22,50 (.885)	24,00 (.944)	$19,10 \pm 0,20 (.751 \pm .007)$	1-1/16 - 18 UNEF
18	23	192990-1380	TR1823PFS1NB	34,30 (1)	25,60 (1)	22,50 (.885)	24,00 (.944)	$19,10 \pm 0,20 (.751 \pm .007)$	1-1/16 - 18 UNEF
20	28	192926-0540	TR2028PFS1NB	37,50 (1)	31,30 (1)	25,70 (1)	27,10 (1)	$19,10 \pm 0,20 (.751 \pm .007)$	1-3/16 - 18 UNEF
22	35	192926-0550	TR2235PFS1NB	40,70 (1)	31,30 (1)	28,60 (1)	30,40 (1)	$19,10 \pm 0,20 (.751 \pm .007)$	1-5/16 - 18 UNEF
24	48	192990-1400	TR2448PFS1NB	43,90 (1)	31,30 (1)	31,80 (1)	33,50 (1)	$14,72 \pm 0,15 (.580 \pm .006)$	1-7/16 - 18 UNEF

Note: For versions with plastic locking ring, please consult the factory.

IMPORTANT NOTE: Standard and Reversed Format
Equipment design dictates whether the fixed connector is “live” or “dead” when disconnected. Connector housings are available that provide socket contacts on the live side of the equipment.

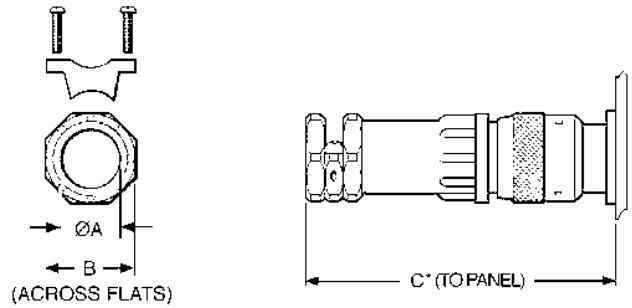
Standard Format: Receptacle with socket contacts.
Reversed Format: Receptacle with pin contacts.

Standard and Reversed connectors are not intermateable.



Sealed Cable Clamps for Use With Ringlock Circular Connectors

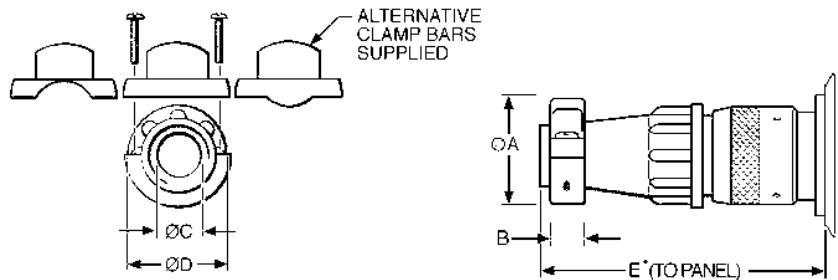
- For use with jacketed cables.
- Provides strain relief and wire protection.
- Can be water sealed to IP65. See notes on pages 30 and 32.
- For assembly instructions, see page 79.



* For disassembly, add 9,00 (.354) for Shell Sizes 10-16 & add 10,60 (.417) for Shell Sizes 18-24.

Shell Size	Part Number (Each)	Nomenclature	Dimensions		
			Ø A max	B ± 0,20 (.007)	C* max.
10	192990-1530	TR10AHC1N	11,10 (.437)	18,80 (.740)	76,50 (3.011)
12	192990-1540	TR12AHC1N	13,60 (.535)	20,80 (.818)	77,80 (3.063)
14	192990-1550	TR14AHC1N	14,60 (.574)	22,80 (.897)	85,50 (3.366)
16	192990-1560	TR16AHC1N	16,60 (.653)	24,70 (.972)	89,80 (3.535)
18	192990-1570	TR18AHC1N	16,60 (.653)	24,70 (.972)	93,00 (3.661)
20	192990-1580	TR20AHC1N	22,10 (.870)	31,80 (1.252)	107,50 (4.232)
22	192990-1590	TR22AHC1N	22,10 (.870)	31,80 (1.252)	114,50 (4.507)
24	192990-1600	TR24AHC1N	29,60 (1.165)	41,80 (1.645)	128,50 (5.059)

* Assumes a uniformly cylindrical cable. Variations in the diameter could effect sealing.



* For disassembly, add 9,00 (.354) for Shell Sizes 10-16 & add 10,60 (.417) for Shell Sizes 18-24.

Unsealed Cable Clamps for Use With Ringlock Circular Connectors

- Provides strain relief and wire protection.
- For assembly instructions, see page 79.

Shell Size	Part Number (Each)	Nomenclature	Dimensions				
			Ø A max	B ± 0,15 (.005)	Ø C max.	Ø D ± 0,15 (.005)	E* max.
10	192922-1310	TR10ASR1N	21,50 (.846)	6,40 (.251)	8,70 (.342)	21,00 (.826)	61,30 (2.413)
12	192922-1320	TR12ASR1N	24,90 (.980)	6,40 (.251)	12,80 (.503)	24,00 (.944)	61,30 (2.413)
14	192922-1330	TR14ASR1N	27,00 (1.063)	6,40 (.251)	13,80 (.543)	27,00 (1.063)	67,10 (2.641)
16	192922-1340	TR16ASR1N	30,10 (1.185)	6,40 (.251)	17,00 (.669)	30,20 (1.189)	67,10 (2.641)
18	192990-1510	TR18ASR1N	32,00 (1.259)	7,00 (.275)	19,90 (.783)	33,20 (1.307)	70,80 (2.787)
20	192922-1350	TR20ASR1N	34,30 (1.350)	7,00 (.275)	21,00 (.827)	36,40 (1.433)	79,30 (3.122)
22	192922-1360	TR22ASR1N	37,10 (1.460)	8,20 (.322)	23,00 (.905)	39,60 (1.559)	85,30 (3.358)
24	192990-1520	TR24ASR1N	41,80 (1.645)	8,20 (.322)	27,00 (1.063)	42,80 (1.685)	90,80 (3.574)

Dimensions shown in mm (inch)
Specifications and dimensions subject to change

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
031-8717-020	71	192900-0035	42	192900-0392	41	192900-0558	44	192926-0500	31
031-8717-021	71	192900-0036	41	192900-0395	46	192900-0560	44	192926-0510	31
031-8717-022	71	192900-0038	42	192900-0396	46	192900-0561	40	192926-0520	31
031-8717-120	71	192900-0039	41	192900-0402	51	192900-0562	44	192926-0530	31
031-8717-121	71	192900-0051	40	192900-0403	67	192900-0564	44	192926-0540	31
031-8717-122	71	192900-0052	44	192900-0404	67	192900-0565	51	192926-0550	31
075-8543-011	34	192900-0053	43	192900-0405	67	192900-0566	51	192943-4580	73
075-8543-012	34	192900-0054	43	192900-0406	67	192900-0567	51	192945-4380	72
075-8543-013	34	192900-0055	43	192900-0407	67	192900-0581	43	192945-4390	72
075-8543-014	34	192900-0056	43	192900-0408	67	192900-0582	45	192945-4530	72, 73
075-8543-015	34	192900-0057	43	192900-0409	67	192900-0583	46	192945-4930	72, 73
075-8543-016	34	192900-0064	45	192900-0410	67	192900-0586	46	192990-0000	50, 73
075-8543-017	34	192900-0066	46	192900-0411	12	192900-0632	70	192990-0010	73
075-8543-018	34	192900-0068	46	192900-0412	12	192900-0633	70	192990-0020	67
120090-0118	75	192900-0069	45	192900-0413	12	192900-0634	70	192990-0030	67
121086-3278	74	192900-0071	46	192900-0414	12	192900-0635	70	192990-0040	67
121586-5067	75	192900-0072	45	192900-0415	12	192900-0636	60	192990-0050	67
121586-5068	75	192900-0074	49	192900-0416	12	192900-0637	60	192990-0060	67
121586-5069	75	192900-0075	45	192900-0417	12	192900-0639	60	192990-0070	67
121586-5070	75	192900-0077	46	192900-0418	13	192900-0640	60	192990-0080	67
121586-5217	75	192900-0078	45	192900-0419	13	192900-0654	49	192990-0090	67
121586-5236	74	192900-0092	39	192900-0420	13	192900-0664	44	192990-0100	67
121586-5237	74	192900-0093	39	192900-0421	13	192900-0666	34	192990-0110	67
121586-5238	74	192900-0094	39	192900-0422	13	192900-0667	34	192990-0350	10
121586-5239	75	192900-0096	41	192900-0423	13	192900-0668	34	192990-0360	11
121586-5240	75	192900-0098	42	192900-0424	13	192900-0669	34	192990-0370	10
121586-5241	74	192900-0099	41	192900-0425	43	192900-0670	34	192990-0380	11
121587-0010	16	192900-0101	42	192900-0428	43	192900-0671	34	192990-0400	11
121587-0011	16	192900-0102	41	192900-0429	43	192900-0672	34	192990-0420	11
121587-0012	16	192900-0104	42	192900-0431	45	192900-0673	34	192990-0430	11
121587-0013	16	192900-0105	41	192900-0434	45	192900-0676	34	192990-0440	11
121587-0014	16	192900-0106	43	192900-0435	45	192900-0677	34	192990-0450	11
121587-0015	16	192900-0107	43	192900-0437	46	192900-0678	34	192990-0460	10
121587-0016	16	192900-0108	43	192900-0438	46	192900-0679	34	192990-0470	10
121587-0020	16	192900-0109	43	192900-0440	46	192900-0680	34	192990-0480	10
121587-0021	16	192900-0110	45	192900-0441	46	192900-0681	34	192990-0960	19
121587-0022	16	192900-0113	45	192900-0445	67	192900-0682	34	192990-0970	19
121587-0023	16	192900-0115	46	192900-0446	67	192900-0683	34	192990-0980	19
121587-0024	16	192900-0116	45	192900-0447	67	192900-0691	40	192990-0990	19
121587-0025	16	192900-0118	46	192900-0448	67	192900-0692	40	192990-1000	19
121587-0026	16	192900-0119	45	192900-0449	67	192900-0718	51	192990-1220	67
121587-0030	17	192900-0120	67	192900-0450	67	192922-1190	30	192990-1230	67
121587-0031	17	192900-0121	67	192900-0451	67	192922-1200	30	192990-1240	67
121587-0032	17	192900-0122	67	192900-0452	67	192922-1210	30	192990-1250	67
121587-0033	17	192900-0123	67	192900-0457	51	192922-1220	30	192990-1290	30
121587-0034	17	192900-0124	67	192900-0458	51	192922-1230	30	192990-1300	30
121587-0035	17	192900-0125	67	192900-0465	70	192922-1240	30	192990-1310	30
121587-0036	17	192900-0126	67	192900-0469	39	192922-1250	29	192990-1320	29
121587-0040	17	192900-0127	67	192900-0473	39	192922-1260	29	192990-1330	29
121587-0041	17	192900-0176	74	192900-0472	39	192922-1270	29	192990-1340	29
121587-0042	17	192900-0184	49	192900-0475	41	192922-1280	29	192990-1350	32
121587-0043	17	192900-0185	49	192900-0478	41	192922-1290	29	192990-1360	32
121587-0044	17	192900-0187	49	192900-0479	41	192922-1300	29	192990-1370	32
121587-0045	17	192900-0189	50, 73	192900-0481	42	192922-1310	35	192990-1380	31
121587-0046	17	192900-0226	49	192900-0484	42	192922-1320	35	192990-1390	31
121668-0000	71	192900-0236	43	192900-0485	39, 42	192922-1330	35	192990-1400	31
121668-0001	71	192900-0242	43	192900-0487	50	192922-1340	35	192990-1430	34
121668-0002	71	192900-0241	43	192900-0488	50	192922-1350	35	192990-1440	34
121668-0100	71	192900-0256	45	192900-0489	50	192922-1360	35	192990-1450	34
121668-0101	71	192900-0261	45	192900-0490	42	192922-1450	74	192990-1460	34
121668-0102	71	192900-0262	45	192900-0493	42	192922-1460	67	192990-1470	34
192900-0000	67	192900-0266	46	192900-0494	42	192922-1470	67	192990-1480	34
192900-0001	67	192900-0271	46	192900-0496	48, 60	192923-5920	10	192990-1490	34
192900-0002	67	192900-0286	48, 60	192900-0497	48, 60	192923-5930	10	192990-1500	34
192900-0003	67	192900-0303	39	192900-0498	48	192923-5940	10	192990-1510	35
192900-0004	67	192900-0308	41	192900-0507	39	192923-5950	10	192990-1520	35
192900-0005	67	192900-0313	42	192900-0508	42	192923-5960	10	192990-1530	35
192900-0006	67	192900-0318	39	192900-0509	41	192923-5970	10	192990-1540	35
192900-0007	67	192900-0319	39	192900-0510	39	192923-5980	10	192990-1550	35
192900-0012	39	192900-0323	41	192900-0511	42	192923-5990	10	192990-1560	35
192900-0013	39	192900-0324	41	192900-0512	41	192923-6000	10	192990-1570	35
192900-0014	39	192900-0328	42	192900-0537	40	192923-6010	11	192990-1580	35
192900-0015	39	192900-0329	42	192900-0538	40	192923-6020	11	192990-1590	35
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192900-0017	39	192900-0344	48	192900-0540	44	192923-6040	11	192990-1660	30
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192900-0028	42	192900-0370	46	192900-0547	44	192926-0450	32	192990-1690	30
192900-0029	41	192900-0378	51	192900-0548	44	192926-0460	32	192990-1700	30
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192900-0032	42	192900-0383	51	192900-0550	44	192926-0480	32	192990-1720	30
192900-0033	41	192900-0388	51	192900-0557	40	192926-0490	32	192990-1730	30

Dimensions shown in mm (inch)

Specifications and dimensions subject to change