

Hazardous Location Interconnect Systems

Enhanced-survivability connector assemblies rated for C1D2 / C2D2 / ATEX / IECEx locations.



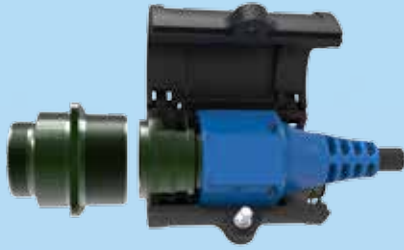


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TELEDYNE CABLE SOLUTIONS



Teledyne Cable Solutions (TCS), an alliance formed of Teledyne Storm Cable and Teledyne VariSystems, provides bulk wire and cable and overmolded cable assemblies to the oil and gas, marine, defense, and transit industries.

With over 50 years of dedicated experience providing multiconductor cable and interconnect solutions for harsh environments, TCS meets challenges for application-specific multi-core cables and complex overmolded cable assemblies and harnesses.



Why Teledyne Cable Solutions?

We build cables & assemblies that solve cable problems.



ENGINEERED SOLUTIONS

- Proven processes to solve complex interconnect challenges
- Engineering, CAD, and technical sales support
- Product design from 3D modeling to comprehensive testing
- Comprehensive Quality & Continuous Improvement Programs



THE RIGHT TOOLS FOR THE JOB

- A wide variety of components, materials, and capabilities to develop custom solutions
- Over 50 years of dedicated experience in providing cable and interconnect solutions



QUICK TIME-TO-MARKET

- Rapid prototyping
- Fast deliveries
- Low minimum orders



Hazardous Location Interconnect Systems



Hazardous location cables provide an alternative to installing wiring in conduit, saving time and material costs, and allowing for easy maintenance and repair. Conduit systems, although effective at keeping vapors and liquids from migrating through the cable system, are often labor-intensive to install and maintain. TCS hazardous location cables offer the same amount of protection from the elements as conduit systems with a simpler, less expensive installation process.



Teledyne Cable Solutions has developed a range of North American agency-approved, cost-effective, qualified interconnect products rated for Class I, Division II (C1D2) and Class II, Division II (C2D2) hazardous locations ATEX (Zone 2 & Zone 22) IECEx. The turn-key assembly includes aluminum alloy connectors (receptacle and plug) with pressure molded resilient insert, hazardous location rated cable, a ruggedized locking mechanism, and a dust cap with lanyard.

A selection of product sizes from 16 and larger is available in a wide range of pin counts.



The Teledyne hazardous location cables are constructed with Telethane®, a proprietary insulating jacket material targeted for applications where heat and oil resistance exceeds traditionally processed thermoplastics. Rubber-like flexibility at temperatures down to -40°C and heat-stabilized, and can be rated at 1000 hours at 175°C, this material replaces traditional cross-linked rubber at a significantly lower cost.



TYPICAL APPLICATIONS

- Petroleum refineries
- Gasoline storage and dispensing areas
- Spray finishing areas
- Aircraft hangars and fuel servicing areas
- Utility gas plants
- Operations involving storage and handling of liquefied petroleum gas or natural gas
- Oilfield tank farms

Hazardous Location Interconnect Systems

Interconnect packages rated for hazardous environments

Key Features:

- Turnkey assembly includes aluminum alloy connectors (receptacle and plug) with pressure molded resilient insert, hazardous location rated cable, locking mechanism, and dust cap with lanyard
- Qualified for Class I, Division II (C1D2) and Class II, Division II (C2D2) ATEX (Zone 2 & Zone 22) IECEx hazardous locations

Benefits:

- An alternative to installing wiring in conduit, saving time and material costs
- Cables are constructed with Telethane®, a proprietary jacket material developed to withstand extreme environments

Standards:

- Conforms to ISA STD. 12.12.01 & UL STDS. 1977, 817:2015, and 2238
- Certified to CSA STDS. C22.2 Nos. 213, 182.3-M1987, and No. 21-14
- Non-incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations [ISA 12.12.01:2015 Ed.6]
- Non-incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations [CSA C22.2#213:2015]
- Cord Sets and Power-Supply Cords [UL 817:2015 Ed.12 +R: 09Mar2016]
- UL 2238 Issue: 2011/05/04 Cable Assemblies and Fittings for Industrial Control and Signal Distribution
- CSA C22.2 No. 21-14, Cord sets and power-supply cords, February 2014

Atex:

IEC 60079-0:2017
EN 60079-7:2007
EN 60079-31:2010

IECEx:

IEC 60079-0:2017
IEC 60079-7: 2015 Ed. 5.0
IEC 60079-31:2009 Ed. 1.0

Ratings:

- Voltage: 300V Maximum
- Current ratings: A) 9pin models and below = 5 amps B) Models larger than 9pin = 2.5amps
- Maximum connection cycles: 400
- Cable Assembly C1D2 & CIID2 Class I Division 2 ABCD Class II Division 2 EFG Temperature Code: T6 Ambient Temperature Range: -25°C ≤ Tamb ≤ +39°C



Certificate No: IECEx CML 17.0143X

Marking:

Ex ec IIC T6 Gc (Ta = -25°C to +39°C)
Ex ec IIC T4 Gc (Ta = -25°C to +75°C)
Ex tc IIIC T85°C Dc (Ta = -25°C to +39°C) - in-line connector
Ex tc IIIB T85°C Dc (Ta = -25°C to +39°C) - bulkhead connector
Ex tc IIIC T130°C Dc (Ta = -25°C to +75°C) - in-line connector
Ex tc IIIB T130°C Dc (Ta = -25°C to +75°C) - bulkhead connector



CML 17ATEX4252X

II 3 G D

Ex ec IIC T6/T4 Gc
Ex tc IIIC T80°C /T130°C Dc (in-line connector)
Ex tc IIIB T80°C /T130°C Dc (bulkhead connector)
IP66 (in-line connector)
Ta=-25°C to +39°C (T6/T80°C)
Ta=-25°C to +75°C (T4/T130°C)

Hazardous Location Chart

Guide to Equipment certification requirements for North America

PROTECTION CONCEPTS [NEC® & CEC®]						
Type of Protection	Code (EPL)	Country	Class	Division/Zone	Standard	Basic Concept of Protection
ELECTRICAL EQUIPMENT FOR FLAMMABLE GAS, VAPORS AND MIST - CLASS I						
General Requirements	- AEx Ex	US US CA	Class I Class I Class I	Division 1 & 2 Division 1 & 2 Division 1 & 2	FM 3600 ISA 60079-0 CSA C22.2 No. 60079-0	
Increased Safety	AEx e (Gb) Ex e (Gb)	US CA	Class I Class I	Zone 1 Zone 1	ISA 60079-7 CSA C22.2 No. 60079-7	No arcs, sparks or hot surfaces
Non-Incendive	NI NI	US CA	Class I Class I	Division 2 Division 2	ISA 12.12.01/FM 3611 CSA C22.2 No. 213	
Non-Sparking	AEx nA (Gc) Ex nA (Gc)	US CA	Class I Class I	Zone 2 Zone 2	ISA 60079-15 CSA C22.2 No. 60079-15	
Explosion-proof	XP XP	US CA	Class I Class I	Division 1 Division 1	UL 1203 CSA C22.2 No. 30	
Flame-proof	AEx d (Gb) Ex d (Gb)	US CA	Class I Class I	Zone 1 Zone 1	ISA 60079-1 CSA C22.2 No. 60079-1	Contain the explosion and extinguish the flame
Powder Filled	AEx q (Gb) Ex q (Gb)	US CA	Class I Class I	Zone 1 Zone 1	ISA 60079-5 CSA C22.2 No. 60079-5	
Enclosed Break	AEx nC (Gc) Ex nC (Gc)	US CA	Class I Class I	Zone 2 Zone 2	ISA 60079-15 CSA C22.2 No. 60079-15	
Intrinsic Safety ¹	IS	US	Class I	Division 1	UL 913 / FM 3610	Limit energy of sparks and surface-temperature
	IS	CA	Class I	Division 1	CSA C22.2 No. 157	
	AEx ia (Ga)	US	Class I	Zone 0	ISA 60079-11	
	AEx ib (Gb)	US	Class I	Zone 1	ISA 60079-11	
	AEx ic (Gc)	US	Class I	Zone 2	ISA 60079-11	
	Ex ia (Ga)	CA	Class I	Zone 0	CSA C22.2 No. 60079-11	
	Ex ib (Gb)	CA	Class I	Zone 1	CSA C22.2 No. 60079-11	
Limited Energy	Ex nL (Gc)	CA	Class I	Zone 2	CSA C22.2 No. 60079-15	
Pressurized	Type X	US	Class I	Division 1	NFPA 496 (FM 3620)	0.173 (4.4) 0.173 (4.4) 750 750
	Type X	CA	Class I	Division 1	NFPA 496	
	Type Y	US	Class I	Division 1	NFPA 496 (FM 3620)	
	Type Y	CA	Class I	Division 1	NFPA 496	
	Type Z	US	Class I	Division 2	NFPA 496 (FM 3620)	
	Type Z	CA	Class I	Division 2	NFPA 496	
	AEx px (Gb)	US	Class I	Zone 1	ISA 60079-2	
	Ex px (Gb)	CA	Class I	Zone 1	CSA C22.2 No. 60079-2	
	AEx py (Gb)	US	Class I	Zone 1	ISA 60079-2	
	Ex py (Gb)	CA	Class I	Zone 1	CSA C22.2 No. 60079-2	
	AEx pz (Gc)	US	Class I	Zone 2	ISA 60079-2	
	Ex pz (Gc)	CA	Class I	Zone 2	CSA C22.2 No. 60079-2	
Restricted Breathing	AEx nR (Gc) Ex nR (Gc)	US CA	Class I Class I	Zone 2 Zone 2	ISA 60079-15 CSA C22.2 No. 60079-15	
Encapsulation	AEx ma (Ga) A	US	Class I	Zone 0	ISA 60079-18	
	Ex mb (Gb) A	US	Class I	Zone 2	ISA 60079-18	
	Ex mc (Gc)	US	Class I	Zone 1	ISA 60079-18	
	Ex m	CA	Class I	Zone 1	CSA C22.2 No. 60079-18	
Oil Immersion	AEx o (Gb) Ex o (Gb)	US CA	Class I Class I	Zone 1 Zone 1	ISA 60079-6 CSA C22.2 No. 60079-6	

Hazardous Location Chart

Guide to Equipment certification requirements for North America

PROTECTION CONCEPTS [NEC® & CEC®]						
Type of Protection	Code (EPL)	Country	Class	Division/Zone	Standard	Basic Concept of Protection
ELECTRICAL EQUIPMENT FOR COMBUSTIBLE DUST - CLASS II & CLASS III						
General Requirements	-	US	Class I	Division 1 & 2	FM 3600	Keep combustible dust out
	-	CA	Class II	Division 1 & 2	CSA C22.2 No. 25	
	-	US	Class III	Division 1 & 2	FM 3600	
	Ex	US	-	Zone 20, 21, 22	ISA 60079-0	
Dust-Ignition proof	DIP	US CA	Class I Class I	Division 1 Division 1	UL 1203 CSA C22.2 No. 25	
Dust Protected	NI	US CA	Class II Class II	Division 2 Division 2	ISA 12.12.01 / FM 3611 CSA C22.2 No. 25	
Enclosure	AEx ta (Da)	US	Class II	Zone 20 ²	ISA 60079-31	
	AEx tb (Db)	US	Class II	Zone 21 ²	ISA 60079-31	
	AEx tc (Dc)	US	Class II	Zone 22 ²	ISA 60079-31	
	Ex ta	CA	Class II	Division 1	CSA C22.2 No. 60079-31	
	Ex ta	CA	Class III	Division 1	CSA C22.2 No. 60079-31	
	Ex tb	CA	Class II	Division 1	CSA C22.2 No. 60079-31	
	Ex tb	CA	Class III	Division 1	CSA C22.2 No. 60079-31	
	Ex tc	CA	Class II	Division 2	CSA C22.2 No. 60079-31	
Fiber & Flying Protection	-	US	Class III	Division 1 & 2	UL 1203 / ISA 12.12.01	
	-	CA	Class III	Division 1 & 2	CSA C22.2 No. 25	
Encapsulation	AEx maD	US	Class II	Zone 20	ISA 61241-18	Limit energy of sparks and surface temperature
	AEx mbD	US	Class II	Zone 21	ISA 61241-18	
	Ex ma	CA	Class II	Division 1	CSA C22.2 No. 60079-18	
	Ex ma	CA	Class III	Division 1	CSA C22.2 No. 60079-18	
	Ex mb	CA	Class II	Division 1	CSA C22.2 No. 60079-18	
	Ex mb	CA	Class III	Division 1	CSA C22.2 No. 60079-18	
	Ex mc	CA	Class II	Division 2	CSA C22.2 No. 60079-18	
	Ex mc	CA	Class III	Division 2	CSA C22.2 No. 60079-18	
Pressurization	Type X	US	Class II	Division 1	NFPA 496 (FM 3620)	
	Type X	CA	Class II	Division 1	NFPA 496	
	Type Y	US	Class II	Division 1	NFPA 496 (FM 3620)	
	Type Y	CA	Class II	Division 1	NFPA 496	
	Type Z	US	Class II	Division 2	NFPA 496 (FM 3620)	
	Type Z	CA	Class II	Division 2	NFPA 496	
Intrinsic Safety	AEx pD	US	Class II	Zone 21	ISA 62141-2	
	IS	US	Class II	Division 1	UL 913 / FM 3610	
	AEx iaD	US	Class II	Zone 20	ISA 61241-11	
	AEx ibD	US	Class II	Zone 21	ISA 61241-11	
	IS	US	Class III	Division 1	UL 913 / FM 3610	

Note 1: For associated intrinsically safe apparatus suitable for installation in a hazardous location, the symbol for the type of protection "ia" or "ib" are enclosed within square brackets on the marking, e.g. AEx d [ia] IIC T4. For intrinsically safe apparatus not suitable for installation in a hazardous location, both the symbol "Ex" or "AEx" and the symbol for the type of protection "ia" or "ib" are enclosed within the same square brackets on the marking, e.g. [AEx ia] IIC; in this case, a temperature class is not included.

Note 2: Zones 20-22 are not currently classified in the Canadian Electric Code (CEC®).



Hazardous Location Chart

Guide to Equipment certification requirements for North America

STANDARDS BY PRODUCT TYPES		
Product Category	Standard(s)	Class & Division
Luminaires	UL 844 "Luminaires for use in Hazardous (Classified) Locations"	Class I, Divisions 1 & 2 Class II, Divisions 1 & 2 Class I, Zones 1 & 2 Class II, Zones 20, 21, 22 Class III
	CSA C22.2 No. 137 "Electric luminaires for use in hazardous locations"	Class I, Divisions 1 & 2 Class II, Divisions 1 & 2
Motors and Generators (Explosion-proof & Dust-ignition proof)	UL 674 "Electric motors and generators for use in hazardous (classified) locations" ³	Class I, Division 1, Groups B,C,D Class I, Zone 1, Groups IIA, IIB, IIB+H2 Class II, Division 1, Groups E,F,G Class II, Zones 20, 21
	CSA C22.2 No. 145 "Electric motors and generators for use in hazardous (classified) locations" ³	
Industrial Control Panels	UL 698A "Industrial control panels relating to hazardous (classified) locations"	Associated apparatus for the following hazardous (classified) locations: Class I, Division 1 Class I, Zone 0 and Zone 1 Class II, Division 1 Class III, Division 1 Class II, Zone 20 and Zone 21
	CSA C22.2 No. 14 "Industrial control equipment" Section 4.18	Control panels located in ordinary locations with intrinsically safe barriers: Class I, Division 1 Class I, Zone 0 and Zone 1 Class II, Division 1
Flashlights	UL 783 "Electric flashlights and lanterns for use in hazardous (classified) locations"	Class I, Divisions 1 & 2 Class II, Divisions 1 & 2 Class I, Zones 1 & 2
Heaters	UL 823 "Electric heaters for use in hazardous (classified) locations"	Class I, Divisions 1 & 2 Class II, Divisions 1 & 2 Class III, Divisions 1 & 2 Class I, Zone 1 Class II, Zones 20, 21, and 22
Fuel Dispensing Equipment	UL 87 "Power-operated dispensing devices for petroleum products"	Areas classified for fuel dispensing equipment per national and local codes
	UL 87A Dispensers for gasoline and ethonol blends, E0 to E85	
	UL 87B Dispensers for diesel fuel, biodiesel blends to B20, kerosene and fuel oil	
	UL 87C Dispensers for diesel exhaust fluids	
	UL 1238 "Control equipment for use with flammable liquid dispensing devices"	
	CSA C22.2 No. 22 "Electrical equipment for flammable and combustibile fuel dispensers"	

ENCLOSURE TYPE RATINGS [NEC & CEC]		
Type	Area	Brief Description
1	Indoor	General Purpose
2	Indoor	Protection against angled dripping water
3,3R, 3S	Indoor/ Outdoor	Protection against rain, snow
4, 4X	Indoor/ Outdoor	Protection against rain, snow, hose directed water and corrosion (X only)
5	Indoor	Protection against angled dripping water, dust, fibers, flyings
6	Indoor/ Outdoor	Protection against temporary submersion
6P	Indoor/ Outdoor	Protection against prolonged submersion
12, 12K	Indoor	Protection against circulating dust, fibers, flyings
13	Indoor	Protection against circulating dust, fibers, flyings, seepage

TYPICAL NORTH AMERICAN MARKING			
Division Scheme			
Class 1	Division 1	Groups A&B	T4
↑	↑	↑	↑
Hazard Class	Area Classification	Gas Group	Temperature Class











Note 3: UL 674 and CSA 145 are harmonized standards



Note 3: UL 674 and CSA 145 are harmonized standards.

Hazardous Location Chart

Guide to Equipment certification requirements for North America and ATEX & IECEx

ATMOSPHERE GROUPS				TEMPERATURE CLASSIFICATION ⁷		
Substance	Hazard Class	Division Groups	Zone Groups	Max. Surface Temperature	NEC® 500 CEC®	NEC® 505/IEC - Group II
Acetylene	Class I Flammable Gases	Group A	IIC	450° C (824° F)	T1	T1
Hydrogen		Group B	IIC	300° C (572° F)	T2	T2
Ethylene		Group C	IIB	280° C (536° F)	T2A	
Propane		Group D	IIA	260° C (500° F)	T2B	
Methane		Group D	IIA ⁵	230° C (446° F)	T2C	
Combustible Metal Dusts	Class II Combustible Dusts	Group D	IIIC ⁶	215° C (419° F)	T2D	
Cumbustible Carbonaceous Dusts		Group D	IIIB ⁶	200° C (392° F)	T3	T3
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group D	IIIB ⁶	180° C (356° F)	T3A	
Combustible Fibers and Flyings		Group D	IIIB ⁶	165° C (329° F)	T3B	
	Class 111 Fibers and Flyings	Not Applicable	IIIA ⁶	160° C (320° F)	T3C	
				135° C (275° F)	T4	T4
				120° C (248° F)	T4A	
				100° C (212° F)	T5	T5
				85° C (185° F)	T6	T6

Note 4: Group E is applicable to Class II, Division 1 only.
 Note 5: Methane is a Group IIA Gas for non-mining applications.
 Note 6: Groups IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code.
 Note 7: For Group I applications (ATEX and IECEx only), electrical apparatus has fixed temperature limits of 150°C (where layers of coal dust can form) and 450°C (where coal dust is not expected to form a layer).

CLASSIFICATION OF DIVISIONS AND ZONES			
Hazard Level	Division Scheme	Zone Scheme	Definitions
Continuous Hazard	Division 1	Zone 0 / Zone 20	A place in which an explosive atmosphere is continually present
Intermittent Hazard		Zone 1 / Zone 21	A place in which an explosive atmosphere is likely to occur in normal operation
Hazard Under Abnormal Conditions	Division 2	Zone 2 / Zone 22	A place in which an explosive atmosphere is not likely to occur in normal operation, but may occur for short periods



Product Selection Guide

Steps to choosing a Hazardous Location Interconnect Package

Follow this step-by-step guide to select a package that fits your needs, or complete the worksheet on page 12 & 13. If you need technical assistance, please contact us at cablesolutions@teledyne.com or (214) 637-1381.

STEP 1

CHOOSE THE SOURCE CONNECTION:

WALL MOUNT CONNECTOR (located on page 18 & 19)

- All wall mount connectors come prewired with 24 inches of Cross Linked Polyethylene wire



ENCLOSURE BULKHEAD MOUNT CONNECTOR (located on page 24 & 25)

- All Bulkhead connectors come prewired with 24 inches of Cross Linked Polyethylene wire



PIGTAIL ASSEMBLY WITH INLINE PLUG (page 22 & 23) OR RECEPTACLE (page 20 & 21)

- Type of cable and length will need to be selected
- Locking mechanism, connector covers, and labels will come standard with your selection



STEP 2

CHOOSE THE CORDSET CONFIGURATION:

DOUBLE ENDED ASSEMBLY

- Select mating connectors to your source connection
 - Inline plugs can be found on page 22 & 23
 - Inline receptacles can be found on page 20 & 21
- Locking mechanisms, connector covers, and labeling will come standard with your selection



PIGTAIL ASSEMBLY WITH INLINE PLUG (page 22 & 23) OR RECEPTACLE (page 20 & 21)

- Type of cable and length will need to be selected
- Locking mechanism, connector covers, and labels will come standard with your selection



Product Selection Guide

Steps to choosing a Hazardous Location Interconnect Package

STEP 3

CHOOSE THE END DEVICE CONNECTION:

WALL MOUNT CONNECTOR (located on page 18 & 19)

- All wall mount connectors come prewired with 24 inches of Cross Linked Polyethylene wire



ENCLOSURE BULKHEAD MOUNT CONNECTOR (located on page 24 & 25)

- All Bulkhead connectors come prewired with 24 inches of Cross Linked Polyethylene wire



PIGTAIL ASSEMBLY WITH INLINE PLUG (page 22 & 23) OR RECEPTACLE (page 20 & 21)

- Type of cable and length will need to be selected
- Locking mechanism, connector covers, and labels will come standard with your selection



STEP 4

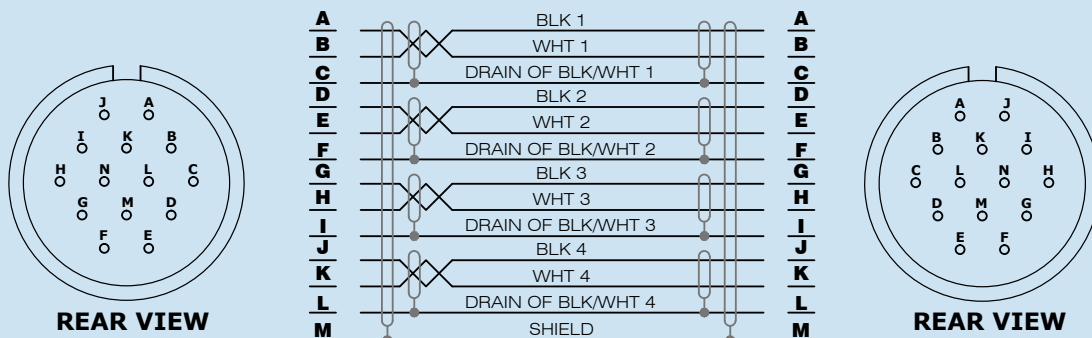
MAKE YOUR CABLE SELECTION :

1. Gauge size of wires
2. Core type: Multi Conductor, Multi Pair, or Individually shielded pairs
3. Cable shielding preference: None, single shield of Aluminum foil, Double shielded of Aluminum foil and interwoven braid
4. What is the use: Voltage, Temperature,
5. What type of installation method: Conduit, raceway,



STEP 5

DETAIL YOUR WIRE CHART FOR EACH ASSEMBLY (FOR EXAMPLE) :



Product Worksheet

Steps to choosing a Hazardous Location Interconnect Package

Follow this step-by-step guide to select a package that fits your needs.

STEP 1

SELECT SOURCE CONNECTION

Select one of the three options below.


A

WALL MOUNT CONNECTOR

located on page 18 & 19

P/N _____

B

ENCLOSURE (BULKHEAD) MOUNT CONNECTOR

located on page 24 & 25

P/N _____

C

PIGTAIL ASSEMBLY



INLINE PLUG page 22 & 23

P/N _____



INLINE RECEPTACLE page 20 & 21

P/N _____

TYPE OF CABLE _____

CABLE LENGTH _____ ft

All wall mount and bulkhead connectors come prewired with 24 inches of cross-linked Polyethylene wire

STEP 2

SELECT CORDSET CONFIGURATION



Select one of the two options below.

Locking mechanism, connector covers, and labels will come standard with your selection.

A

DOUBLE ENDED ASSEMBLY



INLINE PLUG page 22 & 23

P/N _____

P/N _____



INLINE RECEPTACLE page 20 & 21

P/N _____

P/N _____

STEP 4

SELECT CABLE

CABLE ATTRIBUTES

Gauge Size _____ AWG

Cable Length _____ ft

Voltage _____

Operating temp _____

ADDT'L requirements _____

TYPE OF INSTALLATION METHOD

A

CONDUIT

B

RACEWAY

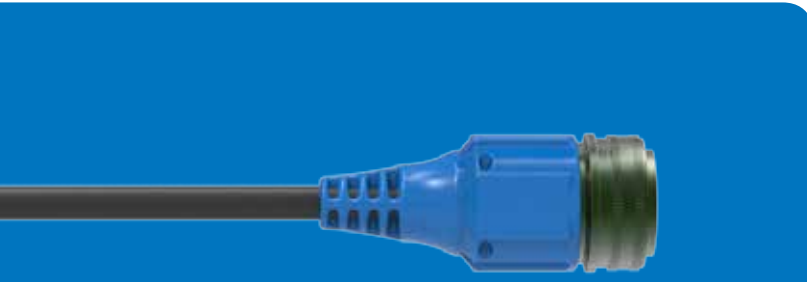
C

OTHER _____

Product Worksheet

Steps to choosing a Hazardous Location Interconnect Package

If you need technical assistance, please contact us at cablesolutions@teledyne.com or (214) 637-1381.



B PIGTAIL ASSEMBLY

☐ **INLINE PLUG** 22 & 23
P/N _____
P/N _____

☐ **INLINE RECEPTACLE** page 20 & 21
P/N _____
P/N _____

CORE TYPE

☐ **A MULTICONDUCTOR**

☐ **B MULTI-PAIR**

☐ **C INDIVIDUAL SHIELDED PAIRS**

CABLE SHIELDING

☐ **A NONE**

☐ **B SINGLE SHIELD OF ALUMINUM FOIL**

☐ **C DOUBLE SHIELDED OF ALUMINUM FOIL**

☐ **D INTERWOVEN BRAID**

STEP 3

SELECT END DEVICE CONNECTION

Select one of the three options below.



A

WALL MOUNT CONNECTOR

located on page 18 & 19

P/N _____

B

ENCLOSURE (BULKHEAD) MOUNT CONNECTOR

located on page 24 & 25

P/N _____

C

PIGTAIL ASSEMBLY



INLINE PLUG page 22 & 23

P/N _____



INLINE RECEPTACLE page 20 & 21

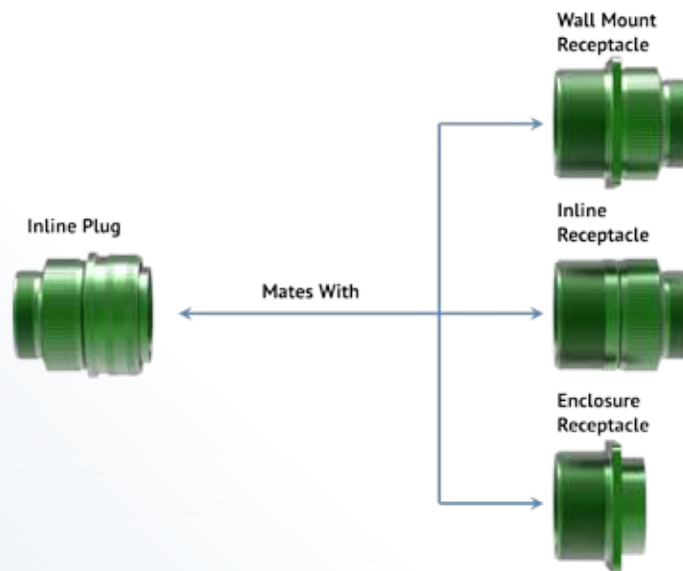
P/N _____

TYPE OF CABLE _____

CABLE LENGTH _____ ft

All wall mount and bulkhead connectors come prewired with 24 inches of cross-linked Polyethylene wire

Connector Styles and Dimensions



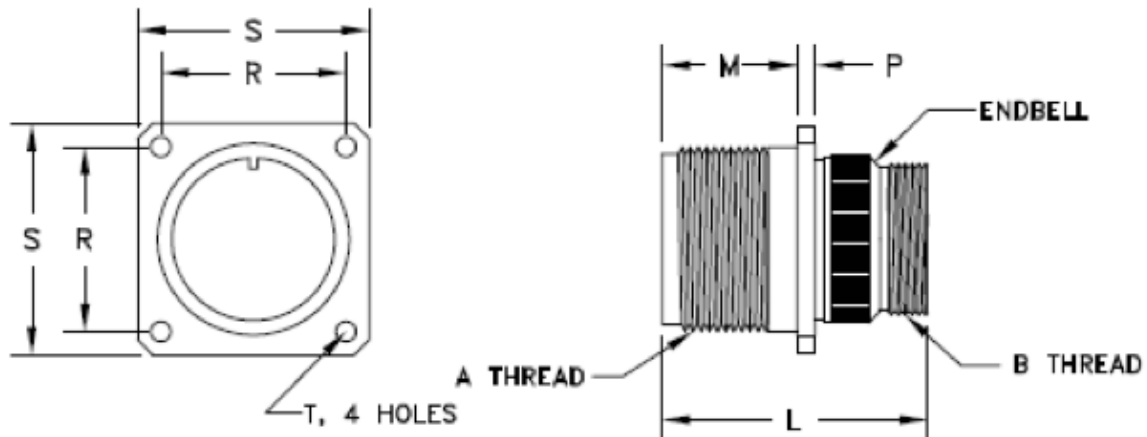
MATERIALS AND FINISHES:

- Shell: Aluminum alloy
 - Plating: Olive drab chromate coating over cadmium plating to QQ-P-416.
Options: ROHS connectors available
 - Contacts: Brass or Copper alloy. Silver plating to QQ-S-365
 - Insulator: Resilient Neoprene.
- *No restrictions for ATEX/IECEX

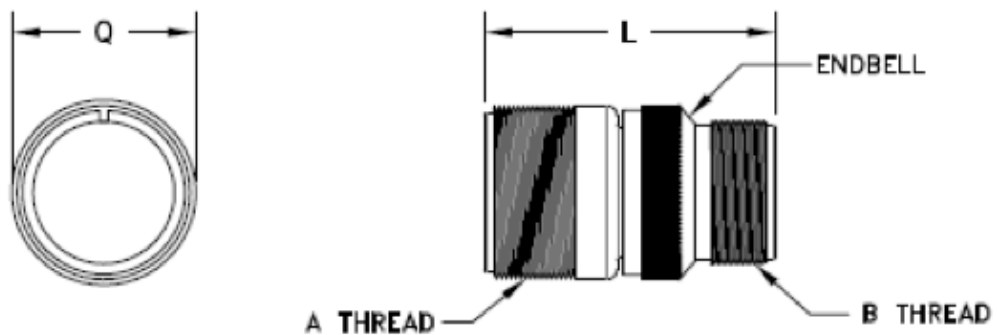


Connector Styles and Dimensions

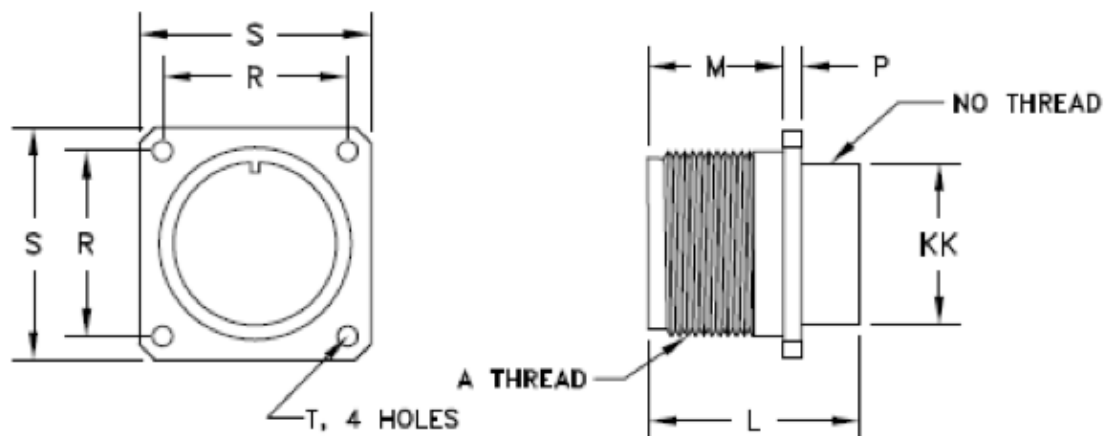
WALL MOUNT RECEPTACLE



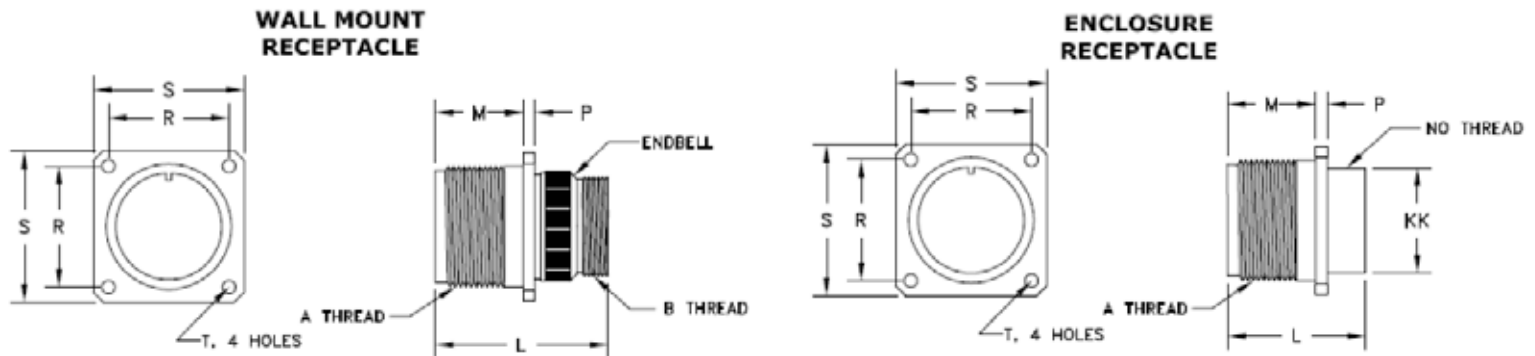
INLINE RECEPTACLE



ENCLOSURE RECEPTACLE



Connector Styles and Dimensions

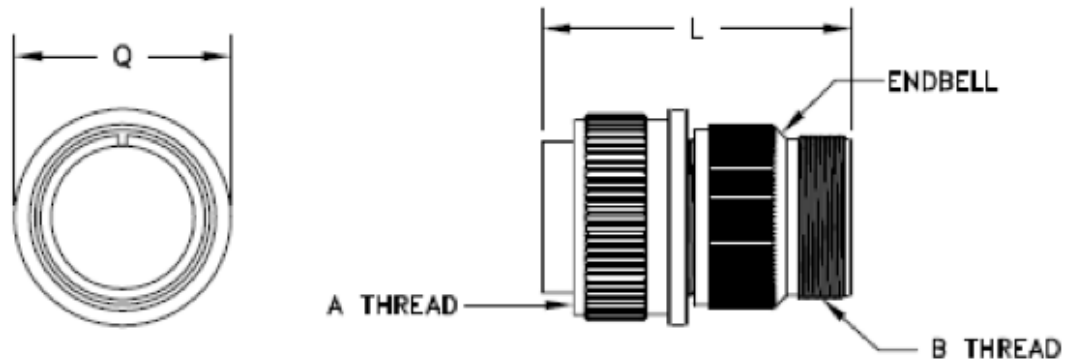


	WALL MOUNT/ENCLOSURE RECEPTACLES						WALL MOUNT/ INLINE RECEPT'S	ENCLOSURE RECEPTACLE	
SHELL SIZE	A THREAD CLASS 2A	M (+.010/-0.000)	P REF.	R (+/-0.005)	S (+/-0.031)	T DIA. (+.004/-0.002)	L REF.	L REF.	KK DIA. (+.010/-0.000)
10S	.625-24NEF	0.562 (14.3)	0.110 (2.8)	0.719 (18.3)	1.000 (25.4)	0.120 (3.0)	1.468 (37.3)	0.969 (24.6)	0.500 (12.7)
10SL	.625-24NEF	0.562 (14.3)	0.110 (2.8)	0.719 (18.3)	1.000 (25.4)	0.120 (3.0)	1.468 (37.3)	0.969 (24.6)	0.625 (15.9)
14S	.875-20UNEF	0.562 (14.3)	0.110 (2.8)	0.906 (23.0)	1.188 (30.2)	0.120 (3.0)	1.468 (37.3)	0.969 (24.6)	0.750 (19.1)
16S	1.000-20UNEF	0.562 (14.3)	0.110 (2.8)	0.906 (23.0)	1.281 (32.5)	0.120 (3.0)	1.468 (37.3)	0.969 (24.6)	0.875 (22.2)
16	1.000-20UNEF	0.750 (19.1)	0.110 (2.8)	0.906 (23.0)	1.281 (32.5)	0.120 (3.0)	1.843 (46.8)	1.344 (34.1)	0.875 (22.2)
18	1.125-18NEF	0.750 (19.1)	0.141 (3.6)	1.062 (27.0)	1.375 (34.9)	0.120 (3.0)	1.938 (49.2)	1.344 (34.1)	1.000 (25.4)
20	1.125-18NEF	0.750 (19.1)	0.141 (3.6)	1.156 (29.4)	1.500 (38.1)	0.120 (3.0)	1.844 (46.8)	1.344 (34.1)	1.125 (28.6)
22	1.375-18NEF	0.750 (19.1)	0.141 (3.6)	1.250 (31.8)	1.625 (41.3)	0.120 (3.0)	1.938 (49.2)	1.344 (34.1)	1.250 (31.8)
24	1.500-18NEF	0.812 (20.6)	0.141 (3.6)	1.375 (34.9)	1.750 (44.5)	0.147 (3.7)	1.969 (50.0)	1.406 (35.7)	1.375 (34.9)
28	1.750-18NS	0.812 (20.6)	0.141 (3.6)	1.562 (39.7)	2.000 (50.8)	0.147 (3.7)	2.188 (55.6)	1.406 (35.7)	1.625 (41.3)
32	2.000-18NS	0.875 (22.2)	0.156 (4.0)	1.750 (44.5)	2.250 (57.2)	0.173 (4.4)	2.157 (54.8)	1.469 (37.3)	1.875 (47.6)
36	2.250-16UN	0.875 (22.2)	0.156 (4.0)	1.938 (49.2)	2.500 (63.5)	0.173 (4.4)	2.219 (56.4)	1.469 (37.3)	2.062 (52.4)
40	2.750-16UN	0.875 (22.2)	0.156 (4.0)	2.188 (55.6)	2.750 (69.9)	0.173 (4.4)	2.188 (55.6)	1.469 (37.3)	2.312 (58.7)

All dimensions in inches (millimeters in parenthesis)

Connector Styles and Dimensions

INLINE PLUG



INLINE PLUG				
SHELL SIZE	A THREAD CLASS 2B	Q DIA.MAX.	B THREAD CLASS 2A	L REF.
10S	.625-24NEF	0.869 (22.1)	.500-28UNEF	1.468 (37.3)
10SL	.625-24NEF	0.946 (24.0)	.625-24-UNEF	1.468 (37.3)
14S	.875-20UNEF	1.123 (28.5)	.750-20UNEF	1.468 (37.3)
16S	1.000-20UNEF	1.250 (31.8)	.875-20UNEF	1.468 (37.3)
16	1.000-20UNEF	1.250 (31.8)	.875-20UNEF	1.843 (46.8)
18	1.125-18NEF	1.333 (33.9)	1.000-20UNEF	1.938 (49.2)
20	1.125-18NEF	1.461 (37.1)	1.125-18UNEF	1.844 (46.8)
22	1.375-18NEF	1.588 (40.3)	1.250-18UNEF	1.938 (49.2)
24	1.500-18NEF	1.715 (43.6)	1.375-18UNEF	1.970 (50.0)
28	1.750-18NS	1.968 (50.0)	1.625-18UNEF	2.189 (55.6)
32	2.000-18NS	2.209 (56.1)	1.875-16UN	2.158 (54.8)
36	2.250-16UN	2.463 (62.6)	2.0625-16UN	2.219 (56.4)
40	2.750-16UN	2.719 (69.1)	2.3125-16UN	2.188 (55.6)

All dimensions in inches (millimeters in parenthesis)

Teledyne Part Numbers: Wall Mount Receptacle PIN

WALL MOUNT RECEPTACLE CONNECTOR: PIN				
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
10S-2	P	1	16	TCPP100002
10SL-3	P	3	16	TCPP100003
10SL-4	P	2	16	TCPP100004
14S-1	P	3	16	TCPP100008
14S-2	P	4	16	TCPP100009
14S-5	P	5	16	TCPP100011
14S-6	P	6	16	TCPP100012
14S-7	P	3	16	TCPP100013
16S-1	P	7	16	TCPP100018
16S-8	P	5	16	TCPP100023
16-10	P	3	12	TCPP100025
16-11	P	2	12	TCPP100026
16-13	P	2	12	TCPP100028
18-1	P	10	16	TCPP100029
18-10	P	4	12	TCPP100034
18-11	P	5	12	TCPP100035
18-12	P	6	16	TCPP100036
18-19	P	10	16	TCPP100039
20-7	P	8	16	TCPP100050
20-11	P	13	16	TCPP100051
20-15	P	7	12	TCPP100052
20-19	P	3	8	TCPP100053
20-23	P	2	8	TCPP100054
20-25	P	13	16	TCPP100055
20-27	P	14	16	TCPP100056
20-29	P	17	16	TCPP100057
20-30	P	13	16	TCPP100058
20-33	P	11	16	TCPP100059
22-2	P	3	8	TCPP100061
22-7	P	1	0	TCPP100062
22-14	P	19	16	TCPP100067

WALL MOUNT RECEPTACLE CONNECTOR: PIN				
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
22-18	P	8	16	TCPP100068
22-19	P	14	16	TCPP100069
22-20	P	9	16	TCPP100070
22-23	P	8	12	TCPP100072
22-28	P	7	12	TCPP100073
22-33	P	7	16	TCPP100074
22-36	P	8	12	TCPP100075
24-2	P	7	12	TCPP100076
24-5	P	16	16	TCPP100077
24-6	P	8	12	TCPP100078
24-9	P	2	4	TCPP100079
24-10	P	7	8	TCPP100080
24-22	P	4	8	TCPP100081
24-27	P	7	16	TCPP100082
24-28	P	24	16	TCPP100083
28-12	P	26	16	TCPP100086
28-13	P	26	16	TCPP100087
28-15	P	35	16	TCPP100088
28-16	P	20	16	TCPP100089
28-17	P	15	16	TCPP100090
28-18	P	12	16	TCPP100091
28-21	P	37	16	TCPP100092
32-5	P	2	0	TCPP100093
32-17	P	4	4	TCPP100094
32-22	P	54	16	TCPP100095
36-4	P	3	0	TCPP100096
36-5	P	4	0	TCPP100097
36-10	P	48	16	TCPP100098
36-15	P	35	16	TCPP100101
36-52	P	52	16	TCPP100102
40-56	P	85	16	TCPP100103

Teledyne Part Numbers: Wall Mount Receptacle **SOCKET**

WALL MOUNT RECEPTACLE CONNECTOR: SOCKET					WALL MOUNT RECEPTACLE CONNECTOR: SOCKET				
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER	LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
10S-2	S	1	16	TCPP200002	22-18	S	8	16	TCPP200068
10SL-3	S	3	16	TCPP200003	22-19	S	14	16	TCPP200069
10SL-4	S	2	16	TCPP200004	22-20	S	9	16	TCPP200070
14S-1	S	3	16	TCPP200008	22-23	S	8	12	TCPP200072
14S-2	S	4	16	TCPP200009	22-28	S	7	12	TCPP200073
14S-5	S	5	16	TCPP200011	22-33	S	7	16	TCPP200074
14S-6	S	6	16	TCPP200012	22-36	S	8	12	TCPP200075
14S-7	S	3	16	TCPP200013	24-2	S	7	12	TCPP200076
16S-1	S	7	16	TCPP200018	24-5	S	16	16	TCPP200077
16S-8	S	5	16	TCPP200023	24-6	S	8	12	TCPP200078
16-10	S	3	12	TCPP200025	24-9	S	2	4	TCPP200079
16-11	S	2	12	TCPP200026	24-10	S	7	8	TCPP200080
16-13	S	2	12	TCPP200028	24-22	S	4	8	TCPP200081
18-1	S	10	16	TCPP200029	24-27	S	7	16	TCPP200082
18-10	S	4	12	TCPP200034	24-28	S	24	16	TCPP200083
18-11	S	5	12	TCPP200035	28-12	S	26	16	TCPP200086
18-12	S	6	16	TCPP200036	28-13	S	26	16	TCPP200087
18-19	S	10	16	TCPP200039	28-15	S	35	16	TCPP200088
20-7	S	8	16	TCPP200050	28-16	S	20	16	TCPP200089
20-11	S	13	16	TCPP200051	28-17	S	15	16	TCPP200090
20-15	S	7	12	TCPP200052	28-18	S	12	16	TCPP200091
20-19	S	3	8	TCPP200053	28-21	S	37	16	TCPP200092
20-23	S	2	8	TCPP200054	32-5	S	2	0	TCPP200093
20-25	S	13	16	TCPP200055	32-17	S	4	4	TCPP200094
20-27	S	14	16	TCPP200056	32-22	S	54	16	TCPP200095
20-29	S	17	16	TCPP200057	36-4	S	3	0	TCPP200096
20-30	S	13	16	TCPP200058	36-5	S	4	0	TCPP200097
20-33	S	11	16	TCPP200059	36-10	S	48	16	TCPP200098
22-2	S	3	8	TCPP200061	36-15	S	35	16	TCPP200101
22-7	S	1	0	TCPP200062	36-52	S	52	16	TCPP200102
22-14	S	19	16	TCPP200067	40-56	S	85	16	TCPP200103

Teledyne Part Numbers: Inline Receptacle Connector PIN

INLINE RECEPTACLE CONNECTOR: PIN				
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
10S-2	P	1	16	TCIR100002
10SL-3	P	3	16	TCIR100003
10SL-4	P	2	16	TCIR100004
14S-1	P	3	16	TCIR100008
14S-2	P	4	16	TCIR100009
14S-5	P	5	16	TCIR100011
14S-6	P	6	16	TCIR100012
14S-7	P	3	16	TCIR100013
16S-1	P	7	16	TCIR100018
16S-8	P	5	16	TCIR100023
16-10	P	3	12	TCIR100025
16-11	P	2	12	TCIR100026
16-13	P	2	12	TCIR100028
18-1	P	10	16	TCIR100029
18-10	P	4	12	TCIR100034
18-11	P	5	12	TCIR100035
18-12	P	6	16	TCIR100036
18-19	P	10	16	TCIR100039
20-7	P	8	16	TCIR100050
20-11	P	13	16	TCIR100051
20-15	P	7	12	TCIR100052
20-19	P	3	8	TCIR100053
20-23	P	2	8	TCIR100054
20-25	P	13	16	TCIR100055
20-27	P	14	16	TCIR100056
20-29	P	17	16	TCIR100057
20-30	P	13	16	TCIR100058
20-33	P	11	16	TCIR100059
22-2	P	3	8	TCIR100061
22-7	P	1	0	TCIR100062
22-14	P	19	16	TCIR100067

INLINE RECEPTACLE CONNECTOR: PIN				
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
22-18	P	8	16	TCIR100068
22-19	P	14	16	TCIR100069
22-20	P	9	16	TCIR100070
22-23	P	8	12	TCIR100072
22-28	P	7	12	TCIR100073
22-33	P	7	16	TCIR100074
22-36	P	8	12	TCIR100075
24-2	P	7	12	TCIR100076
24-5	P	16	16	TCIR100077
24-6	P	8	12	TCIR100078
24-9	P	2	4	TCIR100079
24-10	P	7	8	TCIR100080
24-22	P	4	8	TCIR100081
24-27	P	7	16	TCIR100082
24-28	P	24	16	TCIR100083
28-12	P	26	16	TCIR100086
28-13	P	26	16	TCIR100087
28-15	P	35	16	TCIR100088
28-16	P	20	16	TCIR100089
28-17	P	15	16	TCIR100090
28-18	P	12	16	TCIR100091
28-21	P	37	16	TCIR100092
32-5	P	2	0	TCIR100093
32-17	P	4	4	TCIR100094
32-22	P	54	16	TCIR100095
36-4	P	3	0	TCIR100096
36-5	P	4	0	TCIR100097
36-10	P	48	16	TCIR100098
36-15	P	35	16	TCIR100101
36-52	P	52	16	TCIR100102
40-56	P	85	16	TCIR100103

Teledyne Part Numbers: Inline Receptacle Connector **SOCKET**

INLINE RECEPTACLE CONNECTOR: SOCKET				
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
10S-2	S	1	16	TCIR200002
10SL-3	S	3	16	TCIR200003
10SL-4	S	2	16	TCIR200004
14S-1	S	3	16	TCIR200008
14S-2	S	4	16	TCIR200009
14S-5	S	5	16	TCIR200011
14S-6	S	6	16	TCIR200012
14S-7	S	3	16	TCIR200013
16S-1	S	7	16	TCIR200018
16S-8	S	5	16	TCIR200023
16-10	S	3	12	TCIR200025
16-11	S	2	12	TCIR200026
16-13	S	2	12	TCIR200028
18-1	S	10	16	TCIR200029
18-10	S	4	12	TCIR200034
18-11	S	5	12	TCIR200035
18-12	S	6	16	TCIR200036
18-19	S	10	16	TCIR200039
20-7	S	8	16	TCIR200050
20-11	S	13	16	TCIR200051
20-15	S	7	12	TCIR200052
20-19	S	3	8	TCIR200053
20-23	S	2	8	TCIR200054
20-25	S	13	16	TCIR200055
20-27	S	14	16	TCIR200056
20-29	S	17	16	TCIR200057
20-30	S	13	16	TCIR200058
20-33	S	11	16	TCIR200059
22-2	S	3	8	TCIR200061
22-7	S	1	0	TCIR200062
22-14	S	19	16	TCIR200067

INLINE RECEPTACLE CONNECTOR: SOCKET				
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
22-18	S	8	16	TCIR200068
22-19	S	14	16	TCIR200069
22-20	S	9	16	TCIR200070
22-23	S	8	12	TCIR200072
22-28	S	7	12	TCIR200073
22-33	S	7	16	TCIR200074
22-36	S	8	12	TCIR200075
24-2	S	7	12	TCIR200076
24-5	S	16	16	TCIR200077
24-6	S	8	12	TCIR200078
24-9	S	2	4	TCIR200079
24-10	S	7	8	TCIR200080
24-22	S	4	8	TCIR200081
24-27	S	7	16	TCIR200082
24-28	S	24	16	TCIR200083
28-12	S	26	16	TCIR200086
28-13	S	26	16	TCIR200087
28-15	S	35	16	TCIR200088
28-16	S	20	16	TCIR200089
28-17	S	15	16	TCIR200090
28-18	S	12	16	TCIR200091
28-21	S	37	16	TCIR200092
32-5	S	2	0	TCIR200093
32-17	S	4	4	TCIR200094
32-22	S	54	16	TCIR200095
36-4	S	3	0	TCIR200096
36-5	S	4	0	TCIR200097
36-10	S	48	16	TCIR200098
36-15	S	35	16	TCIR200101
36-52	S	52	16	TCIR200102
40-56	S	85	16	TCIR200103

Teledyne Part Numbers: Inline Plug Connector PIN

INLINE PLUG CONNECTOR: PIN				
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
10S-2	P	1	16	TCIP100002
10SL-3	P	3	16	TCIP100003
10SL-4	P	2	16	TCIP100004
14S-1	P	3	16	TCIP100008
14S-2	P	4	16	TCIP100009
14S-5	P	5	16	TCIP100011
14S-6	P	6	16	TCIP100012
14S-7	P	3	16	TCIP100013
16S-1	P	7	16	TCIP100018
16S-8	P	5	16	TCIP100023
16-10	P	3	12	TCIP100025
16-11	P	2	12	TCIP100026
16-13	P	2	12	TCIP100028
18-1	P	10	16	TCIP100029
18-10	P	4	12	TCIP100034
18-11	P	5	12	TCIP100035
18-12	P	6	16	TCIP100036
18-19	P	10	16	TCIP100039
20-7	P	8	16	TCIP100050
20-11	P	13	16	TCIP100051
20-15	P	7	12	TCIP100052
20-19	P	3	8	TCIP100053
20-23	P	2	8	TCIP100054
20-25	P	13	16	TCIP100055
20-27	P	14	16	TCIP100056
20-29	P	17	16	TCIP100057
20-30	P	13	16	TCIP100058
20-33	P	11	16	TCIP100059
22-2	P	3	8	TCIP100061
22-7	P	1	0	TCIP100062
22-14	P	19	16	TCIP100067

INLINE PLUG CONNECTOR: PIN				
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
22-18	P	8	16	TCIP100068
22-19	P	14	16	TCIP100069
22-20	P	9	16	TCIP100070
22-23	P	8	12	TCIP100072
22-28	P	7	12	TCIP100073
22-33	P	7	16	TCIP100074
22-36	P	8	12	TCIP100075
24-2	P	7	12	TCIP100076
24-5	P	16	16	TCIP100077
24-6	P	8	12	TCIP100078
24-9	P	2	4	TCIP100079
24-10	P	7	8	TCIP100080
24-22	P	4	8	TCIP100081
24-27	P	7	16	TCIP100082
24-28	P	24	16	TCIP100083
28-12	P	26	16	TCIP100086
28-13	P	26	16	TCIP100087
28-15	P	35	16	TCIP100088
28-16	P	20	16	TCIP100089
28-17	P	15	16	TCIP100090
28-18	P	12	16	TCIP100091
28-21	P	37	16	TCIP100092
32-5	P	2	0	TCIP100093
32-17	P	4	4	TCIP100094
32-22	P	54	16	TCIP100095
36-4	P	3	0	TCIP100096
36-5	P	4	0	TCIP100097
36-10	P	48	16	TCIP100098
36-15	P	35	16	TCIP100101
36-52	P	52	16	TCIP100102
40-56	P	85	16	TCIP100103

Teledyne Part Numbers: Inline Plug Connector **SOCKET**

	INLINE PLUG CONNECTOR: SOCKET			
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
10S-2	S	1	16	TCIP200002
10SL-3	S	3	16	TCIP200003
10SL-4	S	2	16	TCIP200004
14S-1	S	3	16	TCIP200008
14S-2	S	4	16	TCIP200009
14S-5	S	5	16	TCIP200011
14S-6	S	6	16	TCIP200012
14S-7	S	3	16	TCIP200013
16S-1	S	7	16	TCIP200018
16S-8	S	5	16	TCIP200023
16-10	S	3	12	TCIP200025
16-11	S	2	12	TCIP200026
16-13	S	2	12	TCIP200028
18-1	S	10	16	TCIP200029
18-10	S	4	12	TCIP200034
18-11	S	5	12	TCIP200035
18-12	S	6	16	TCIP200036
18-19	S	10	16	TCIP200039
20-7	S	8	16	TCIP200050
20-11	S	13	16	TCIP200051
20-15	S	7	12	TCIP200052
20-19	S	3	8	TCIP200053
20-23	S	2	8	TCIP200054
20-25	S	13	16	TCIP200055
20-27	S	14	16	TCIP200056
20-29	S	17	16	TCIP200057
20-30	S	13	16	TCIP200058
20-33	S	11	16	TCIP200059
22-2	S	3	8	TCIP200061
22-7	S	1	0	TCIP200062
22-14	S	19	16	TCIP200067

	INLINE PLUG CONNECTOR: SOCKET			
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
22-18	S	8	16	TCIP200068
22-19	S	14	16	TCIP200069
22-20	S	9	16	TCIP200070
22-23	S	8	12	TCIP200072
22-28	S	7	12	TCIP200073
22-33	S	7	16	TCIP200074
22-36	S	8	12	TCIP200075
24-2	S	7	12	TCIP200076
24-5	S	16	16	TCIP200077
24-6	S	8	12	TCIP200078
24-9	S	2	4	TCIP200079
24-10	S	7	8	TCIP200080
24-22	S	4	8	TCIP200081
24-27	S	7	16	TCIP200082
24-28	S	24	16	TCIP200083
28-12	S	26	16	TCIP200086
28-13	S	26	16	TCIP200087
28-15	S	35	16	TCIP200088
28-16	S	20	16	TCIP200089
28-17	S	15	16	TCIP200090
28-18	S	12	16	TCIP200091
28-21	S	37	16	TCIP200092
32-5	S	2	0	TCIP200093
32-17	S	4	4	TCIP200094
32-22	S	54	16	TCIP200095
36-4	S	3	0	TCIP200096
36-5	S	4	0	TCIP200097
36-10	S	48	16	TCIP200098
36-15	S	35	16	TCIP200101
36-52	S	52	16	TCIP200102
40-56	S	85	16	TCIP200103

Teledyne Part Numbers: Enclosure Mount Receptacle Connector PIN

ENCLOSURE MOUNT RECEPTACLE CONNECTOR: PIN				
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
10S-2	P	1	16	TCEN100002
10SL-3	P	3	16	TCEN100003
10SL-4	P	2	16	TCEN100004
14S-1	P	3	16	TCEN100008
14S-2	P	4	16	TCEN100009
14S-5	P	5	16	TCEN100011
14S-6	P	6	16	TCEN100012
14S-7	P	3	16	TCEN100013
16S-1	P	7	16	TCEN100018
16S-8	P	5	16	TCEN100023
16-10	P	3	12	TCEN100025
16-11	P	2	12	TCEN100026
16-13	P	2	12	TCEN100028
18-1	P	10	16	TCEN100029
18-10	P	4	12	TCEN100034
18-11	P	5	12	TCEN100035
18-12	P	6	16	TCEN100036
18-19	P	10	16	TCEN100039
20-7	P	8	16	TCEN100050
20-11	P	13	16	TCEN100051
20-15	P	7	12	TCEN100052
20-19	P	3	8	TCEN100053
20-23	P	2	8	TCEN100054
20-25	P	13	16	TCEN100055
20-27	P	14	16	TCEN100056
20-29	P	17	16	TCEN100057
20-30	P	13	16	TCEN100058
20-33	P	11	16	TCEN100059
22-2	P	3	8	TCEN100061
22-7	P	1	0	TCEN100062
22-14	P	19	16	TCEN100067

ENCLOSURE MOUNT RECEPTACLE CONNECTOR: PIN				
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
22-18	P	8	16	TCEN100068
22-19	P	14	16	TCEN100069
22-20	P	9	16	TCEN100070
22-23	P	8	12	TCEN100072
22-28	P	7	12	TCEN100073
22-33	P	7	16	TCEN100074
22-36	P	8	12	TCEN100075
24-2	P	7	12	TCEN100076
24-5	P	16	16	TCEN100077
24-6	P	8	12	TCEN100078
24-9	P	2	4	TCEN100079
24-10	P	7	8	TCEN100080
24-22	P	4	8	TCEN100081
24-27	P	7	16	TCEN100082
24-28	P	24	16	TCEN100083
28-12	P	26	16	TCEN100086
28-13	P	26	16	TCEN100087
28-15	P	35	16	TCEN100088
28-16	P	20	16	TCEN100089
28-17	P	15	16	TCEN100090
28-18	P	12	16	TCEN100091
28-21	P	37	16	TCEN100092
32-5	P	2	0	TCEN100093
32-17	P	4	4	TCEN100094
32-22	P	54	16	TCEN100095
36-4	P	3	0	TCEN100096
36-5	P	4	0	TCEN100097
36-10	P	48	16	TCEN100098
36-15	P	35	16	TCEN100101
36-52	P	52	16	TCEN100102
40-56	P	85	16	TCEN100103

Teledyne Part Numbers: Enclosure Mount Receptacle Connector **SOCKET**

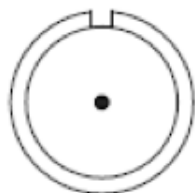
ENCLOSURE MOUNT RECEPTACLE CONNECTOR: SOCKET				
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
10S-2	S	1	16	TCEN200002
10SL-3	S	3	16	TCEN200003
10SL-4	S	2	16	TCEN200004
14S-1	S	3	16	TCEN200008
14S-2	S	4	16	TCEN200009
14S-5	S	5	16	TCEN200011
14S-6	S	6	16	TCEN200012
14S-7	S	3	16	TCEN200013
16S-1	S	7	16	TCEN200018
16S-8	S	5	16	TCEN200023
16-10	S	3	12	TCEN200025
16-11	S	2	12	TCEN200026
16-13	S	2	12	TCEN200028
18-1	S	10	16	TCEN200029
18-10	S	4	12	TCEN200034
18-11	S	5	12	TCEN200035
18-12	S	6	16	TCEN200036
18-19	S	10	16	TCEN200039
20-7	S	8	16	TCEN200050
20-11	S	13	16	TCEN200051
20-15	S	7	12	TCEN200052
20-19	S	3	8	TCEN200053
20-23	S	2	8	TCEN200054
20-25	S	13	16	TCEN200055
20-27	S	14	16	TCEN200056
20-29	S	17	16	TCEN200057
20-30	S	13	16	TCEN200058
20-33	S	11	16	TCEN200059
22-2	S	3	8	TCEN200061
22-7	S	1	0	TCEN200062
22-14	S	19	16	TCEN200067

ENCLOSURE MOUNT RECEPTACLE CONNECTOR: SOCKET				
LAYOUT	PIN/ SOCKET	# OF CONTACTS	CONTACT SIZE	TELEDYNE PART NUMBER
22-18	S	8	16	TCEN200068
22-19	S	14	16	TCEN200069
22-20	S	9	16	TCEN200070
22-23	S	8	12	TCEN200072
22-28	S	7	12	TCEN200073
22-33	S	7	16	TCEN200074
22-36	S	8	12	TCEN200075
24-2	S	7	12	TCEN200076
24-5	S	16	16	TCEN200077
24-6	S	8	12	TCEN200078
24-9	S	2	4	TCEN200079
24-10	S	7	8	TCEN200080
24-22	S	4	8	TCEN200081
24-27	S	7	16	TCEN200082
24-28	S	24	16	TCEN200083
28-12	S	26	16	TCEN200086
28-13	S	26	16	TCEN200087
28-15	S	35	16	TCEN200088
28-16	S	20	16	TCEN200089
28-17	S	15	16	TCEN200090
28-18	S	12	16	TCEN200091
28-21	S	37	16	TCEN200092
32-5	S	2	0	TCEN200093
32-17	S	4	4	TCEN200094
32-22	S	54	16	TCEN200095
36-4	S	3	0	TCEN200096
36-5	S	4	0	TCEN200097
36-10	S	48	16	TCEN200098
36-15	S	35	16	TCEN200101
36-52	S	52	16	TCEN200102
40-56	S	85	16	TCEN200103

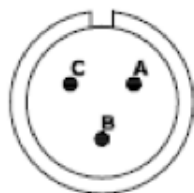
Pinout by Size of Connectors:

The layout is front face of pin inserts or rear face of socket inserts

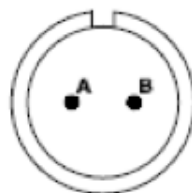
SIZE 10



10S-2
1#16

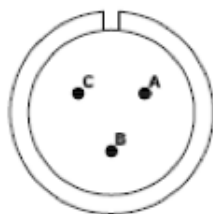


10SL-3
3#16

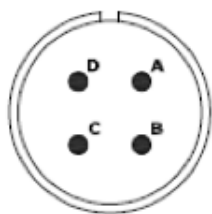


10SL-4
4#16

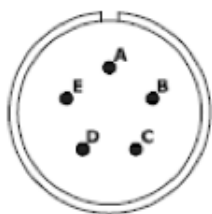
SIZE 14



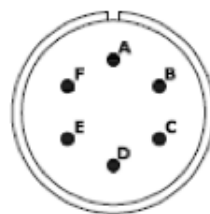
14S-1
3#16



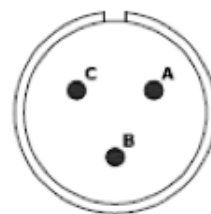
14S-2
4#16



14S-5
5#16

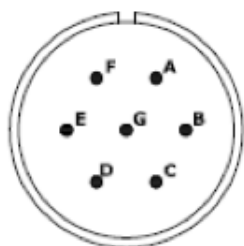


14S-6
6#16

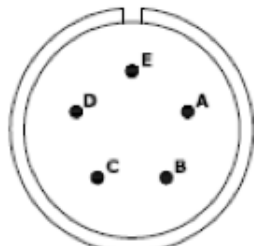


14S-7
3#16

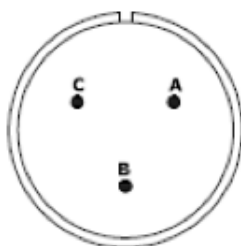
SIZE 16



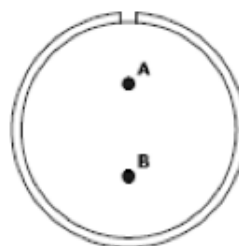
16S-1
7#16



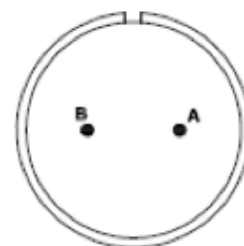
16S-8
5#16



16-10
3#12



16-11
2#12

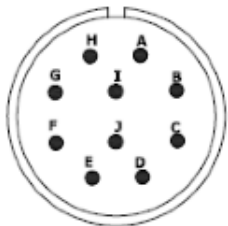


16-13
2#12

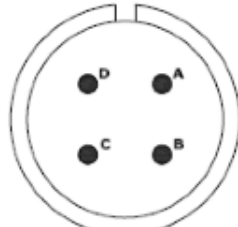
Pinout by Size of Connectors:

The layout is front face of pin inserts or rear face of socket inserts

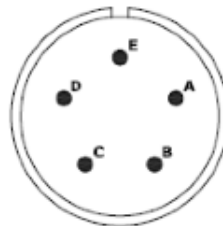
SIZE 18



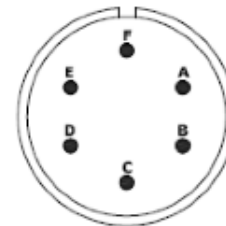
18-1
10#16



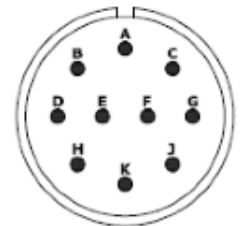
18-10
4#12



18-11
5#12

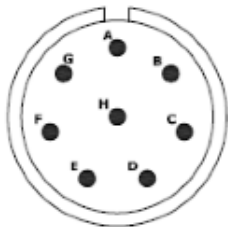


18-12
6#16

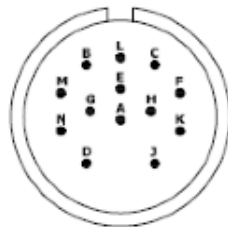


18-19
10#16

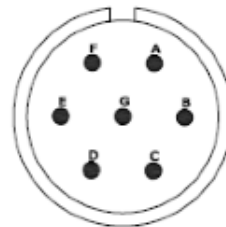
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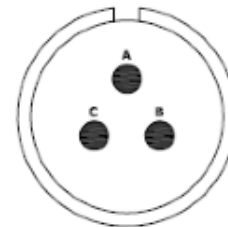
20-7
8#16



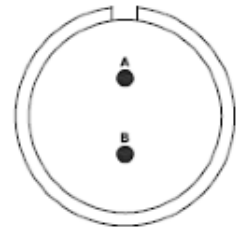
20-11
13#16



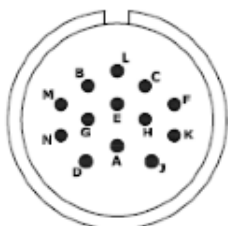
20-15
7#12



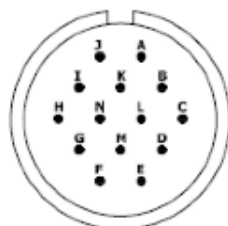
20-19
3#16



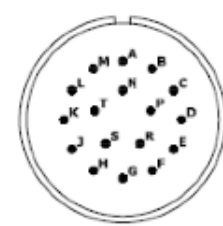
20-23
2#8



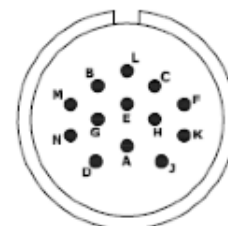
20-25
13#16



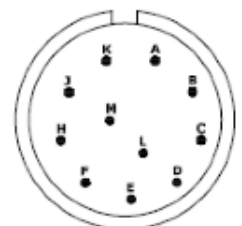
20-27
14#16



20-29
17#16



20-30
13#16

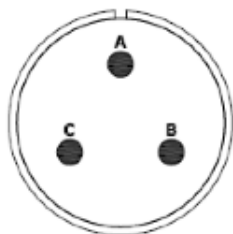


20-33
11#8

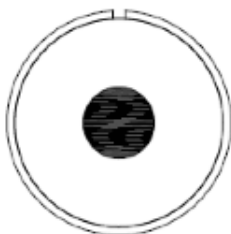
Pinout by Size of Connectors:

The layout is front face of pin inserts or rear face of socket inserts

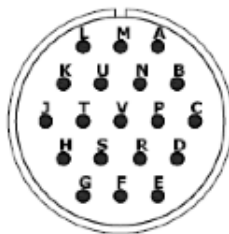
SIZE 22



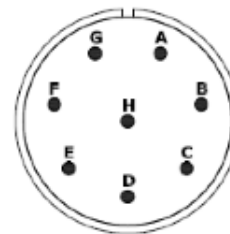
22-2
3#8



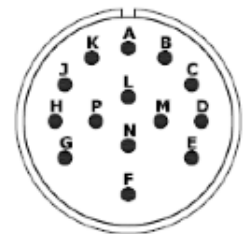
22-7
1#0



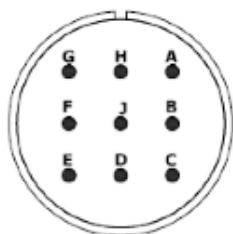
22-14
19#16



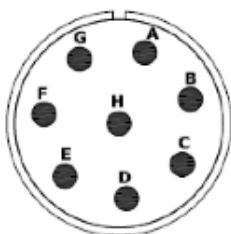
22-18
8#16



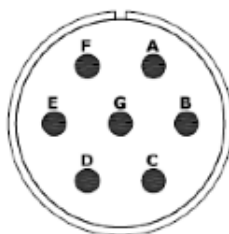
22-19
14#16



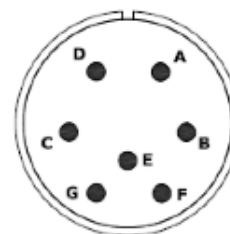
22-20
9#16



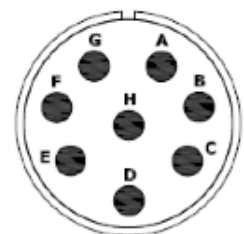
22-23
8#12



22-28
7#12

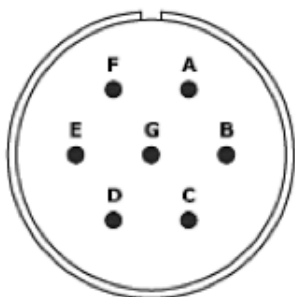


22-33
7#16

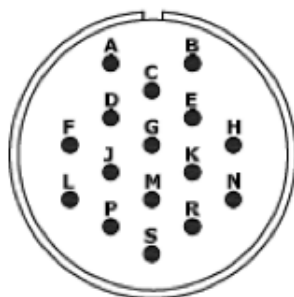


22-36
8#12

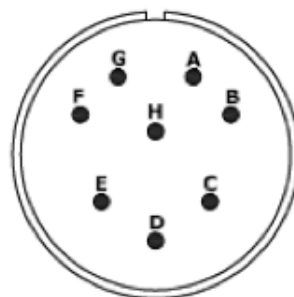
SIZE 24



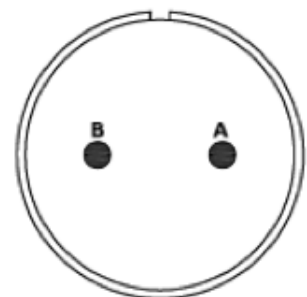
24-2
7#12



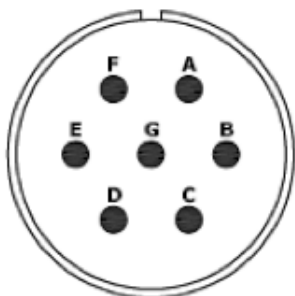
24-5
16#16



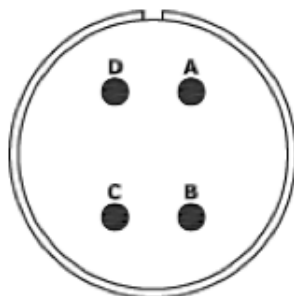
24-6
8#12



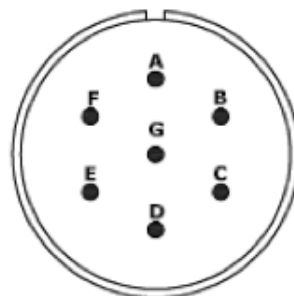
24-9
2#4



24-10
7#8



24-22
4#8



24-27
7#16

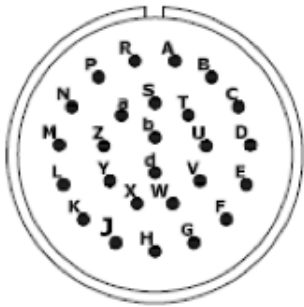


24-28
24#16

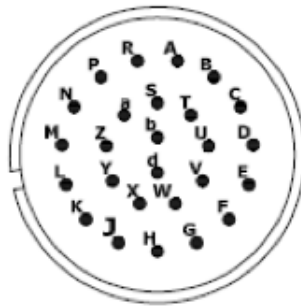
Pinout by Size of Connectors:

The layout is front face of pin inserts or rear face of socket inserts

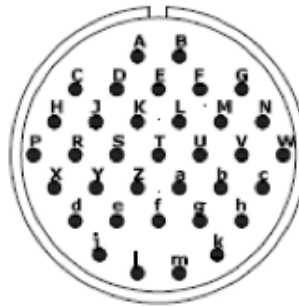
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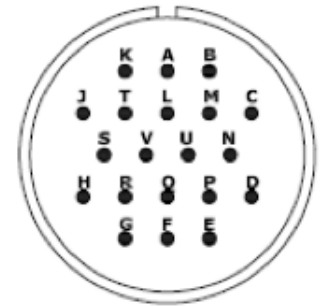
28-12
26#16



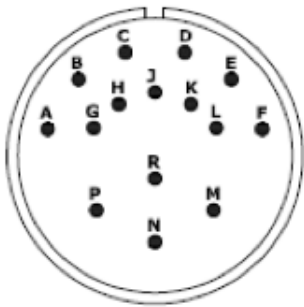
28-13
26#16



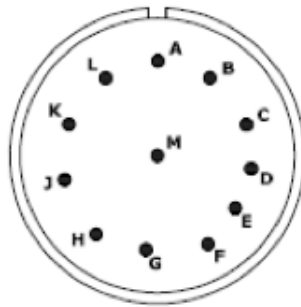
28-15
35#16



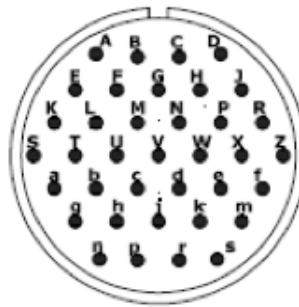
28-62
20#16



28-17
15#16

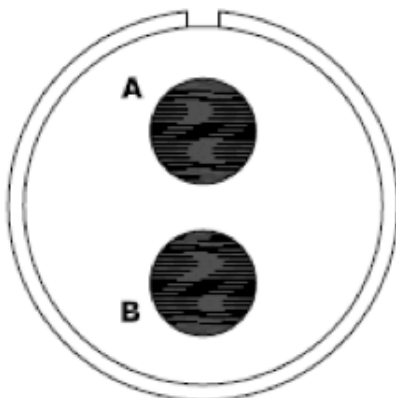


28-18
15#16

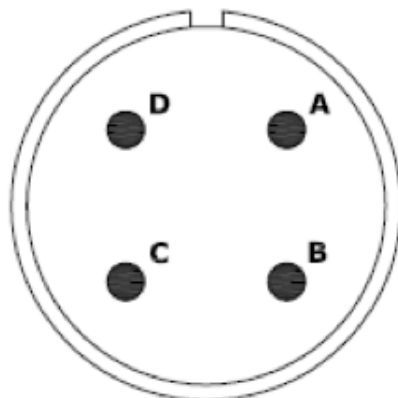


28-21
37#16

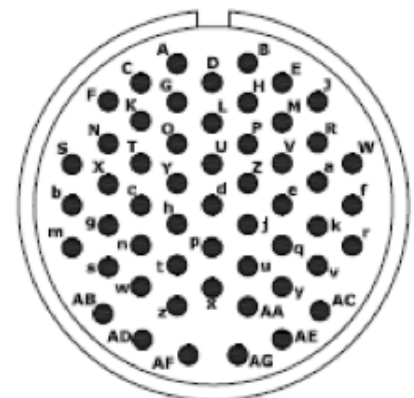
SIZE 32



32-5
2#0



32-17
4#4

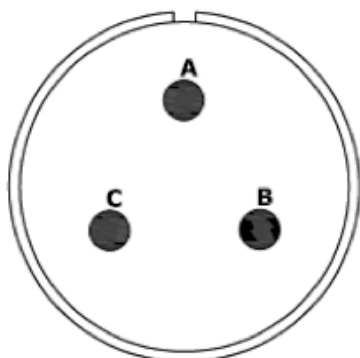


32-2
54#16

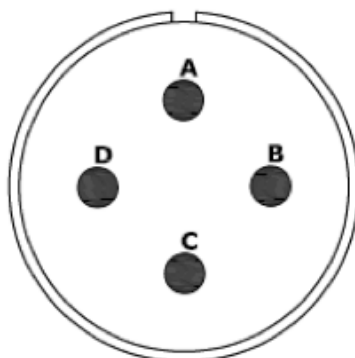
Pinout by Size of Connectors:

The layout is front face of pin inserts or rear face of socket inserts

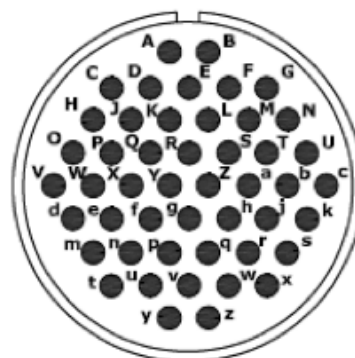
SIZE 36



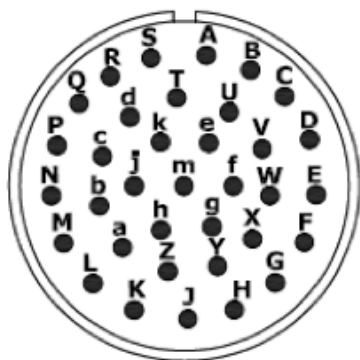
36-4
3#0



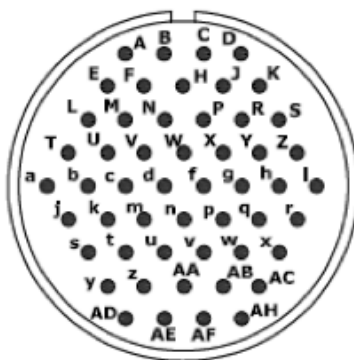
36-5
4#0



36-15
35#16

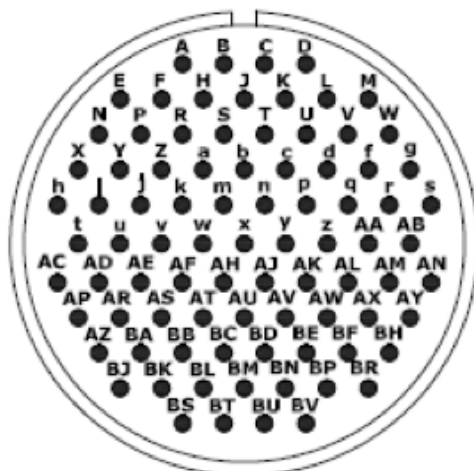


36-10
48#16



36-52
52#16

SIZE 40



40-56
85#16

Additional Solutions from Teledyne Cable Solutions



BULK CABLE

Teledyne Cable Solutions also offers a variety of cable in stock or custom manufactured, ranging from two conductors to 20 pairs in a variety of AWGs, all in Polyurethane jacketing for cold weather reliability and flexibility. This cable is available in any length or spool quantities.



CUSTOM CABLE

All Teledyne Cable Solutions products may be custom ordered to fit most applications. Teledyne Cable Solutions will custom manufacture our 4, 6, and 7-Way conductor products in any quantity or color required, from a single prototype to fleet requirements. TCS also overmolds custom assemblies using circular connectors.





Teledyne Cable Solutions, a partnership formed by Teledyne Storm Cable and Teledyne VariSystems, provides bulk cable and custom assemblies to the oil and gas, marine, defense, and transit industries. With over 50 years of dedicated experience providing cable and interconnect solutions for harsh environments, TCS meets challenges for application-specific multi-core cables and complex overmolded cable assemblies and harnesses.

Cable Solutions is a member of Teledyne Marine.



TELEDYNE
CABLE SOLUTIONS



TELEDYNE STORM CABLE



TELEDYNE VARISYSTEMS

9215 Premier Row
Dallas, TX 75247
Tel: +1 214 637 1381

www.teledynecablesolutions.com
cablesolutions@teledyne.com



TELEDYNE MARINE
Everywhere you look™

Teledyne Marine | Cable Solutions

9215 Premier Row, Dallas, TX 75247 USA
Tel. +1 214 637 1381 • E-mail: cablesolutions@teledyne.com

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