

CIRCULAR CONNECTORS

EPIC® Circular Connectors Overview

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EPIC®

Circular
Connectors

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EPIC® CIRCON LS1 Connectors

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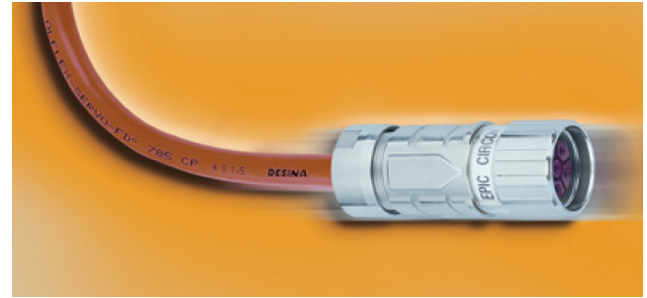
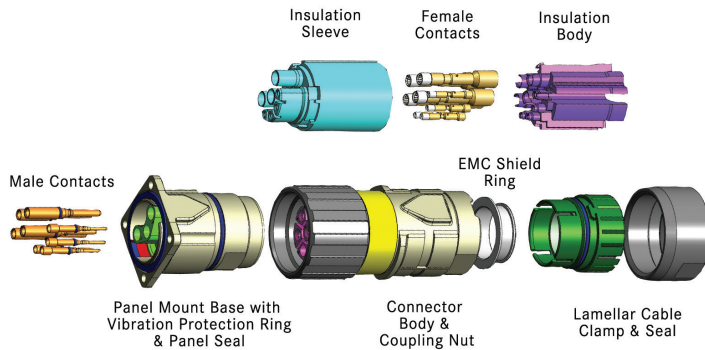
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EPIC® Circular Connectors Overview

	Number of Contacts	Contact Configuration	European DIN Style			North American MIL Style	
			CIRCON LS1 page 425	CIRCON M23 page 431	ZYLIN R3.0 page 438	EAB/EAC page 441	EPT page 450
Number of Contacts / Configuration	2	2					
	3	3				✓	
	4	4				✓	
	5	5					✓
	6	5+PE	✓				
	6	6		✓		✓	✓
	7	7	✓	✓			
	8	3+PE+4	✓				
	8	8					
	9	8+1		✓			
	9	9		✓			
	10	10					✓
	12	8+4					✓
	12	12		✓			
	14	14				✓	
	15	14+1					
	16	14+2					
	16	16		✓			
	17	17		✓		✓	
	18	18					
	19	19				✓	✓
	21	21			✓		
	23	22+1					
	24	24					
	26	26			✓		
	37	37					
	41	41					
	55	55					
Max. Rated Voltage	50V			✓			
	60V				✓		
	100V			✓			
	150V			✓			
	200V					✓	
	500V					✓	
	600V		✓				✓
	900V					✓	
Max. Rated Current	1000V						✓
	7A			✓			
	7.5A				✓		✓
	13A					✓	✓
	14A			✓			
	22A		✓				
Termination Type / Wire Size	23A					✓	
	Solder Termination			✓	✓		
	Crimp Termination		✓	✓			
	24 - 20 AWG						✓
	24 - 18 AWG		✓	✓	✓		
	20 - 16 AWG						✓
	18 - 16 AWG					✓	
	20 - 14 AWG		✓				
	18 - 14 AWG			✓			
	14 - 12 AWG						

EPIC® CIRCON LS1 Series



The EPIC® CIRCON LS1 connectors have many inherent features which offer application advantages and provide significant benefits. These features make it one of the most application-friendly connectors available, and ensure quick and easy assembly, high reliability, and long uninterrupted service life in tough industrial environments.

Application Advantage

- Rugged nickel-plated, die-cast zinc body
- Positive vibration protection for use with motor drives and moving assemblies
- Integral EMC cable gland provides strain-relief, IP67/68 protection, and 360° shielding

Approvals



EPIC® CIRCON LS1 connectors are available in seven housing styles and two contact configurations. Common to all arrangements are a rugged nickel-plated zinc body, plastic contact insulation body and sleeve, and gold-plated electrical contacts (included with the connector part number). Cable-mounted arrangements also include an integral EMC shield ring, cable clamp, and seal. The figure above shows the general construction of these connectors.

These connectors are offered with two contact configurations. The 5+PE contact configuration for power distribution has 5 contacts plus ground, and is rated at 630V and 25A. For feedback and servo motor with brake applications, the 3+PE+4 contact configuration handles mixed power and signal requirements with 3 contacts plus ground, rated 630V and 26A, and 4 contacts rated 250V and 7A. When used in combination, they connect one flexible cable with another (cable coupler) or one flexible cable to fixed wiring on a machine (appliance coupler).

Technical Data

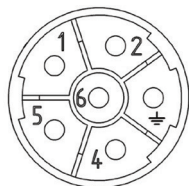
Number of Contacts:	5+PE, 3+PE+4	Wire Gauge (Crimp Termination):	
Temperature Range:	-25°C to +125°C	- 2 mm contacts:	
Rated Voltage:		- Styles A1, A3, G5:	20- 14 AWG (0.5-2.5 mm ²)
- UL:	600V	- Styles D, F, A6:	20- 12 AWG (0.5-4.0 mm ²)
- VDE:		- 1 mm contacts:	24- 18 AWG (0.14- 1.0 mm ²)
- 2 mm contacts:	630V	Cable Diameter:	7.5- 15.5 mm
- 1 mm contacts:	250V	- Styles D & F:	14- 17 mm (12 AWG contacts)
Rated Current:		Mating Cycles:	500
- 2 mm contacts:	25A (5+PE)	Materials:	
- 1 mm contacts:	26A (3+PE+4)	- Housing:	Nickel-plated die-cast zinc
Impulse Voltage:		- Insulation body:	PA, PBT, V-0 per UL 94
- 2 mm contacts:	6kV	- Contacts:	Gold-plated copper alloy
- 1 mm contacts:	4kV	- Gaskets & seals:	FPM
Protection Class:	IP67/68 (10h/1m)	Contact Resistance:	< 4 mΩ
		Approvals:	DIN EN 61984 cRUus #E75770

Photographs are not to scale and are not true representations of the products in question.
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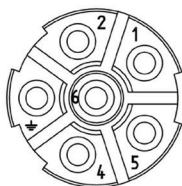
EPIC® CIRCON LS1 Series

EPIC® CIRCON LS1 5+PE

View from contact side



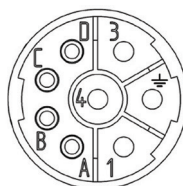
Male Insert



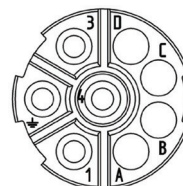
Female Insert

EPIC® CIRCON LS1 3+PE+4

View from contact side



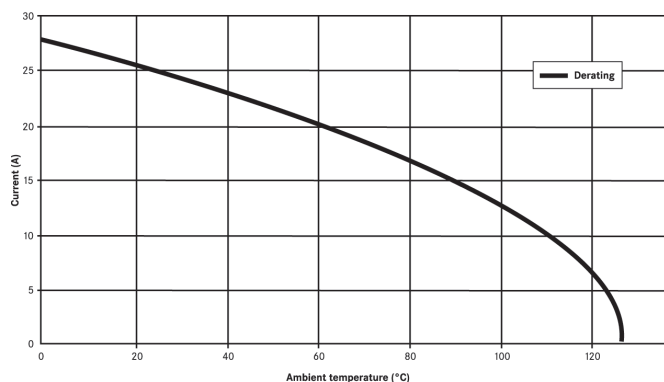
Male Insert



Female Insert

Derating Curve

Basic and derating curve LS-1. 5+PE, 2,5 mm²
Female hyper boloid



Contact Size		Max. Current according to UL	
mm²	AWG	5+PE	3+PE+4
2 mm Contacts			
0.34	22	5A	5A
0.50	20	9A	9A
1.00	18	13A (11A*)	13A (11A*)
1.50	16	12A	12A
2.50	14	22A	22A
4.00	12	25A	26A
1 mm Contacts			
up to 0.14	up to 26	—	1A
1.00	18	—	7A

* cUR

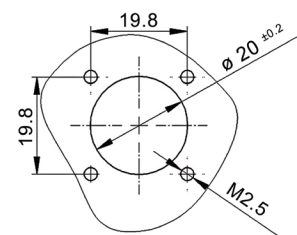
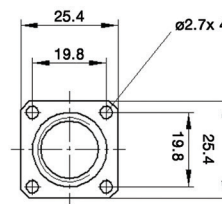
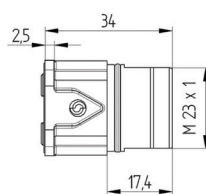
EPIC® CIRCON LS1 Connector Style A1

Straight Panel Mount Inlet with Male Contacts

5+PE



3+PE+4



All dimensions are in mm.

Contact Configuration	Part Number
5+PE	76003000
3+PE+4	76004000

Complete the Installation



Crimp Tool:
11148000



Locator:
11148300



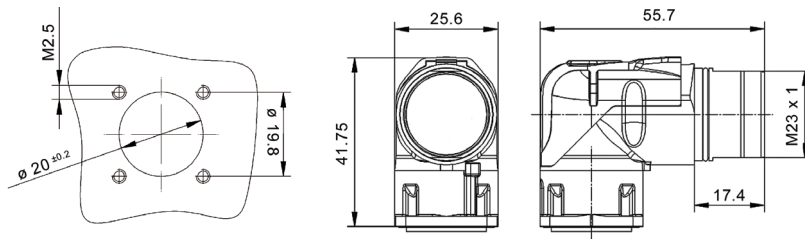
Removal Tool:	
1 mm contacts:	75017400
2 mm contacts:	75017500

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EPIC® CIRCON LS1 Connector Style A3

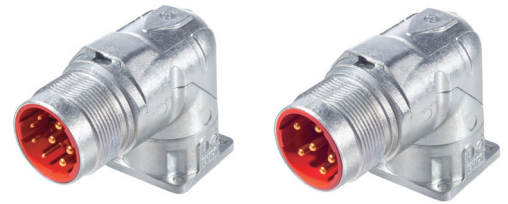
Angled Rotatable Panel Mount Inlet with Male Contacts



All dimensions are in mm.

3+PE+4

5+PE



Contact Configuration	Part Number
5+PE	24420058
3+PE+4	24420056

Complete the Installation



Crimp Tool:

11148000



Locator:

11148300



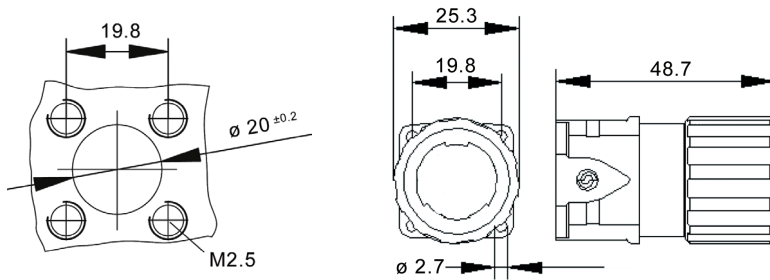
Removal Tool:

1 mm contacts: 75017400

2 mm contacts: 75017500

EPIC® CIRCON LS1 Connector Style A6

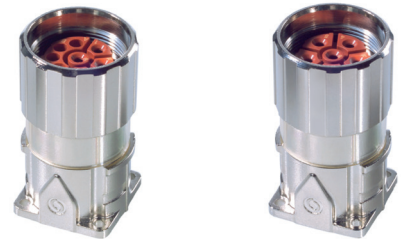
Panel Mount Receptacle with Female Contacts



All dimensions are in mm.

3+PE+4

5+PE



Contact Configuration	Part Number
5+PE	76083000
3+PE+4	76084000

Complete the Installation



Crimp Tool:

11148000



Locator:

11148300

EPIC® CIRCON LS1 Connector Style D6

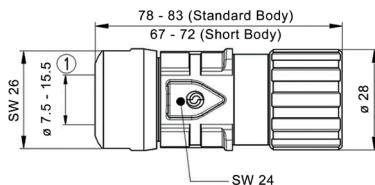
Cable Connector with Female Contacts

Short Body
3+PE+4

Short Body
5+PE

Standard Body
3+PE+4

Standard Body
5+PE



All dimensions are in mm.



Complete the Installation



Crimp Tool:

11148000



Locator:

11148300

Contact Configuration	Standard Body 22 - 14 AWG	Standard Body 12 AWG	Short Body
5+PE	76123000	44420091	76123100
3+PE+4	76124000	44420089	76124100

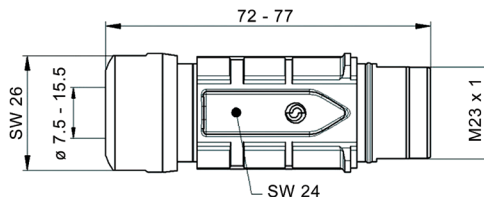
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EPIC® CIRCON LS1 Connector Style F6

Cable Coupler with Male Contacts

5+PE

3+PE+4



All dimensions are in mm.

Contact Configuration	Part Number	
	up to 14 AWG	12 AWG
5+PE	76133000	44420095
3+PE+4	76134000	44420093

Complete the Installation



Crimp Tool:
11148000



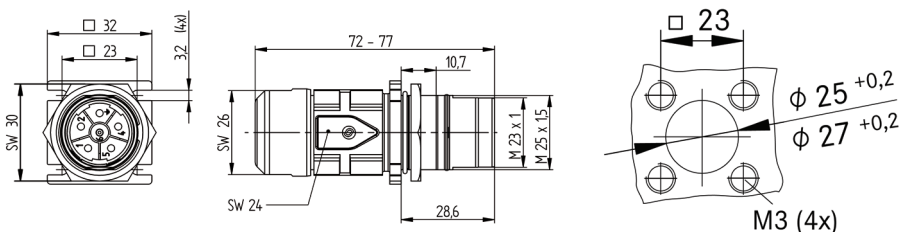
Locator:
11148300

EPIC® CIRCON LS1 Connector Style F7

Cable Coupler with Male Contacts

5+PE

3+PE+4



All dimensions are in mm.

Contact Configuration	Part Number	
	up to 14 AWG	12 AWG
5+PE	76143000	76144000
3+PE+4	76143000	76144000

Complete the Installation



Crimp Tool:
11148000



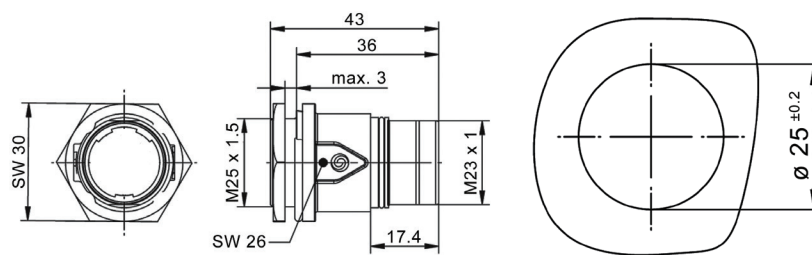
Locator:
11148300

EPIC® CIRCON LS1 Connector Style G5

Straight Panel Mount Inlet with Male Contacts & Locknut

5+PE

3+PE+4



All dimensions are in mm.

Contact Configuration	Part Number	
	up to 14 AWG	12 AWG
5+PE	76153000	76154000
3+PE+4	76153000	76154000

Complete the Installation



Crimp Tool:
11148000



Locator:
11148300



Removal Tool:
1 mm contacts: 75017400
2 mm contacts: 75017500

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EPIC® CIRCON LS1 Accessories

Metal Screw Cap

Plastic Protection Cap



Style	Part Number
A6, D6	75007710
A1, F6, F7, G5	75007810



Style	Part Number
A1, A3, F6, F7, G5	75018310

SILVYN® Adapter



Style	Part Number
M25 x 1.5	55001310

Allows connection to jacketed cable run in conduit.

Replacement Contacts

Style A1, A3, G5 Male Contacts



Contact Size mm²	AWG	Part Number	Strip Length (mm)	Standard Pack Size
0.14 - 1.00	26 - 18	74033001	8	10
0.14 - 1.00	26 - 18	74033000	8	100
0.50 - 2.50	20 - 14	74033101	7	10
0.50 - 2.50	20 - 14	74033100	7	100

Style D6, A6 Female Contacts



Contact Size mm²	AWG	Part Number	Style	Strip Length (mm)	Standard Pack Size
0.14 - 1.0	26 - 18	74034501	Hyper boloid	6.5	10
0.14 - 1.0	26 - 18	74034500	Hyper boloid	6.5	100
0.50 - 2.5	20 - 14	74034601	Hyper boloid	8	10
0.50 - 2.5	20 - 14	74034600	Hyper boloid	8	100
4.0	12	44420104*	Hyper boloid	8	10
4.0	12	44420105*	Hyper boloid	8	100

* for D6 style only

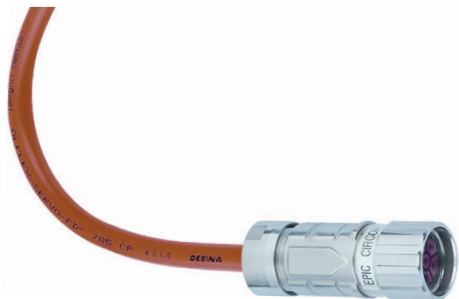
Style F6 & F7 Male Contacts



Contact Size mm²	AWG	Part Number	Strip Length (mm)	Standard Pack Size
0.14 - 1.0	26 - 18	74034001	6	10
0.14 - 1.0	26 - 18	74034000	6	100
0.50 - 2.5	20 - 14	74034101	8	10
0.50 - 2.5	20 - 14	74034100	8	100
4.0	12	44420103	8	100

EPIC® CIRCON LS1 & Servo Cables

Stationary & Continuous Flex Cable Applications



Stationary Applications

Cable Series	Approvals	LS1 5+PE		LS1 3+PE+4	
		Conductor Configuration	Part Number	Conductor Configuration	Part Number
ÖLFLEX® SERVO 709 CY	UL SF CE	16 AWG/4c	0038010	16 AWG/4c + 19 AWG/2pr	0038021
		14 AWG/4c	0038011	14 AWG/4c + 18 AWG/2pr	0038022
ÖLFLEX® SERVO 700	CE	—	—	16 AWG/4c + 19 AWG/2pr	0036145
		—	—	14 AWG/4c + 19 AWG/2pr	0036150
ÖLFLEX® SERVO 700 CY	CE	—	—	16 AWG/4c + 19 AWG/2pr	0036157
		—	—	14 AWG/4c + 19 AWG/2pr	0036158
Servo Cables acc. to SIEMENS® Standard FX8 Plus	UL SF D'E CE	16 AWG/4c	0025700	16 AWG/4c + 16 AWG/1pr	0025715
		14 AWG/4c	0025701	14 AWG/4c + 16 AWG/1pr	0025716

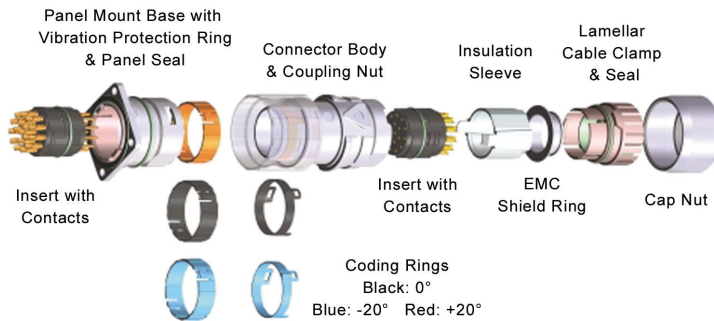
Continuous Flex Applications

Cable Series	Approvals	LS1 5+PE		LS1 3+PE+4	
		Conductor Configuration	Part Number	Conductor Configuration	Part Number
ÖLFLEX® SERVO FD 750 P	CE	—	—	16 AWG/4c + 18 AWG/2pr	36245
		—	—	14 AWG/4c + 18 AWG/2pr	36250
ÖLFLEX® SERVO FD 750 CP	UL SF CE	—	—	16 AWG/4c + 17 AWG/2pr	32322UL
ÖLFLEX® SERVO FD 755 P	CE	—	—	16 AWG/4c + 18 AWG/2pr	36350
		—	—	14 AWG/4c + 18 AWG/2pr	36351
ÖLFLEX® SERVO FD 755 CP	CE	—	—	16 AWG/4c + 17 AWG/1pr	36370
		—	—	14 AWG/4c + 17 AWG/1pr	36371
		—	—	16 AWG/4c + 18 AWG/2pr	36360
Servo Cables acc. to SIEMENS® Standard FX8 Plus	UL SF D'E CE	16 AWG/4c	0027724	16 AWG/4c + 16 AWG/1pr	0027718
		14 AWG/4c	0027725	14 AWG/4c + 16 AWG/1pr	0027719
Servo Cables acc. to INDRAMAT® Standard INK	UL SF CE	—	—	16 AWG/4c + 19 AWG/2pr	7072404
		—	—	14 AWG/4c + 18 AWG/2pr	7072405

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EPIC® CIRCON M23 Series



The EPIC® CIRCON M23 connectors have many inherent features which offer application advantages and provide significant benefits for the customer. These features make it one of the most application-friendly connectors available, and ensure quick and easy assembly, high reliability, and long uninterrupted service life in tough industrial environments.

Approvals



Application Advantage

- Rugged nickel-plated, die-cast zinc body
- Positive vibration protection for use with motor drives and moving assemblies
- Integral EMC cable gland provides strain relief, IP67/68 protection, and 360° shielding
- Coding rings ensure correct mating selection in multiple connector installations

EPIC® CIRCON M23 connectors are available in 11 housing styles that can accommodate 3 different insert keying positions. Inserts are offered in 7 contact configurations for mounting male or female, crimp, or solder contacts. Common to all arrangements are a rugged nickel-plated zinc body, plastic contact insulation body and sleeve, and gold-plated electrical contacts. Cable mounted arrangements also include an integral EMC shield ring and cable clamp and seal. The figure above shows the general construction of these connectors.

The connectors are offered with insert configurations for 6, 7, 8+1, 9, 12, 16 & 17 crimp or solder contacts in either a clockwise or counter-clockwise orientation. Used in combination, they connect one cable to another (cable coupler) or a cable to fixed wiring in a control enclosure or on a machine, instrument, encoder or servo motor.

Technical Data

Number of Contacts:	6, 7, 8+1, 9, 12, 16, 17	Wire Gauge:	
Temperature Range:	-25°C to +125°C	- Crimp termination:	
Rated Voltage:		- 1 mm contacts:	26 - 18 AWG (0.14 - 1.0 mm ²)
- 6, 7, 8+1 & 9 poles:	150V	- 2 mm contacts:	18 - 14 AWG (1.0 - 2.5 mm ²)
- 12 & 16 poles:	100V	- Solder termination:	
- 17 poles:	50V	- 1 mm contacts:	up to 18 AWG (1.0 mm ²)
Rated Current:		- 2 mm contacts:	up to 14 AWG (2.5 mm ²)
- 6 & 7 poles:	8A	Cable Diameter:	7.0 - 13.5 mm
- 8+1, 9, 12, 16 & 17 poles:	7A	Mating Cycles:	100 minimum
Impulse Voltage:		Materials:	
- 6 & 7 poles:	4kV	- Housing:	Nickel-plated die-cast zinc
- 8+1 poles:	2.5kV	- Style C2:	Nickel-plated copper alloy
- 9, 12 & 16 poles:	1.5kV	- Insulation body:	PA, PBT, V-0 per UL 94
- 17 poles:	0.8kV	- Contacts:	Gold-plated copper alloy
Protection Class:	IP67/68 (10h/1m)	- Gaskets & seals:	FPM
- Style A3:	IP65	Contact Resistance:	< 4 mΩ
		Approvals:	DIN EN 61984 cRUus #E75770

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EPIC® CIRCON M23 Inserts

M23 Insert Configurations

Connector inserts will accept both male and female contacts.

A complete connection requires one E-Type insert and one P-Type insert.

# of contacts	6	7	8+1	9	12	16	17
E-Type Inserts							
without contacts	73002766	44420154	73002742	73002730	73002718	73002706	73008600
with male solder contacts	73002768	44420156	73002744	73002732	73002720	73002708	73028500
with female solder contacts	73002770	44420158	73002746	73002734	73002722	73002710	73018500
E-Type Inserts							
	2 mm contacts	2 mm contacts	1 & 2 mm contacts	1 mm contacts	1 mm contacts	1 mm contacts	1 mm contacts
Clockwise numbered contacts viewed from the mating side							
P-Type Inserts							
without contacts	73002760	44420148	73002736	73002724	73002712	73002700	73008000
with male solder contacts	73002762	44420150	73002738	73002726	73002714	73002702	73028000
with female solder contacts	73002764	44420152	73002740	73002728	73002716	73002704	73018000
P-Type Inserts							
	2 mm contacts	2 mm contacts	1 & 2 mm contacts	1 mm contacts	1 mm contacts	1 mm contacts	1 mm contacts
Counter-clockwise numbered contacts viewed from the mating side							

Note: 12 & 17 pole inserts for PCB soldering are available on request (non-stock)

M23 Contacts

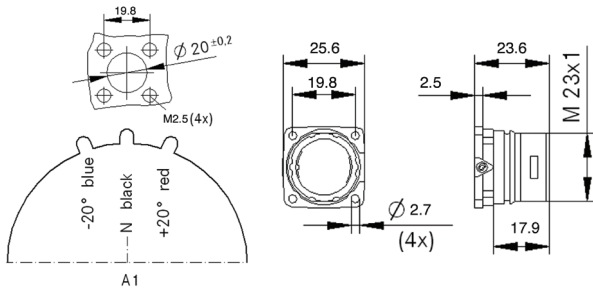
AWG	Size mm ²	Description	Termination Type	Part Number	Standard Pack Size
1 mm M23 Contacts					
26 - 18	0.14 - 1.0	M23 gold male contacts	Crimp	72400000	100
26 - 18	0.14 - 1.0	M23 gold female contacts	Crimp	74200600	100
26 - 18	0.14 - 1.0	M23/LS1 HYP gold female contacts	Crimp	74034500	100
up to 18	up to 1.0	M23 gold male contacts	Solder	72402000	100
up to 18	up to 1.0	M23 gold female contacts	Solder	72402600	100
2 mm M23 Contacts					
18 - 14	1.0 - 2.5	M23 gold male contacts	Crimp	72401000	100
18 - 14	1.0 - 2.5	M23 gold female contacts	Crimp	72401600	100
up to 14	up to 2.5	M23 gold male contacts	Solder	72403000	100
up to 14	up to 2.5	M23 gold female contacts	Solder	72404000	100

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EPIC® CIRCON M23 Connector Style A1

Straight Panel Mount Base



All dimensions are in mm.

Complete the Installation



Crimp Tool:
11148000



Locator:
11148300



Removal Tool:
44420078

Keying: +20°



Keying: -20°



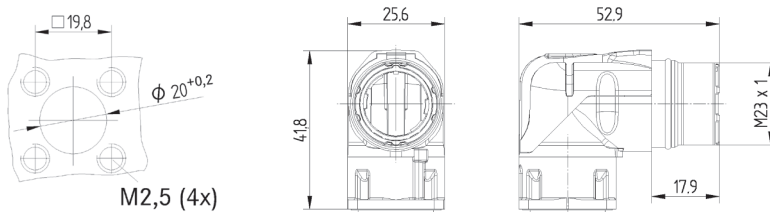
Keying: N



Keying	Part Number
N	72004000
-20°	72004100
+20°	72004200

EPIC® CIRCON M23 Connector Style A3

Angled Panel Mount Base



All dimensions are in mm.

Complete the Installation



Crimp Tool:
11148000



Locator:
11148300



Removal Tool:
44420078

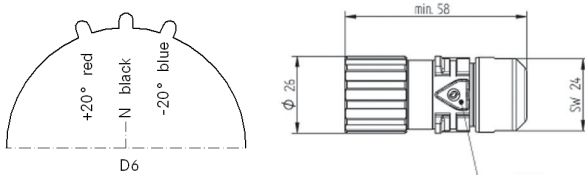


Part Number

24420055

EPIC® CIRCON M23 Connector Style D6

Cable Connector



All dimensions are in mm.

Complete the Installation



Crimp Tool:
11148000



Locator:
11148300

Keying: +20°



Keying: -20°



Keying: N

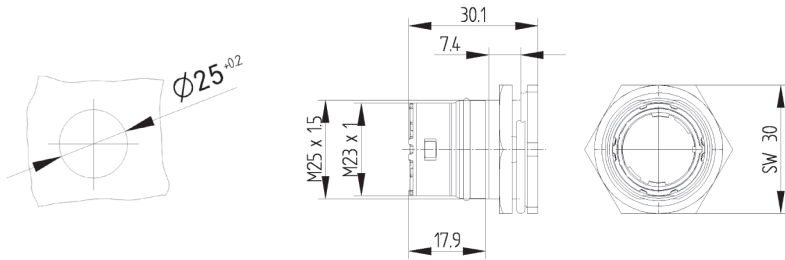


Keying	Part Number
N	44420037
-20°	44420036
+20°	44420038

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For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.

EPIC® CIRCON M23 Connector Style G6

Rear Wall Mounting



All dimensions are in mm.



Complete the Installation



Crimp Tool:
11148000



Locator:
11148300



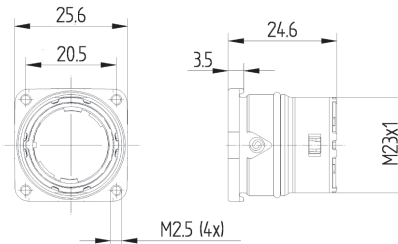
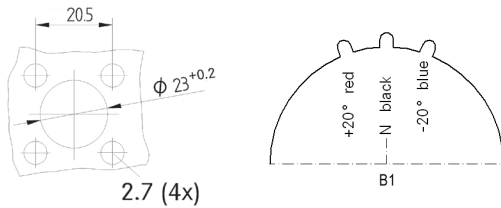
Removal Tool:
44420078

Part Number

44420071

EPIC® CIRCON M23 Connector Style B1

Rear Wall Mounting



All dimensions are in mm.



Complete the Installation



Crimp Tool:
11148000



Locator:
11148300



Removal Tool:
44420078

Keying

Part Number

N

44420024

-20°

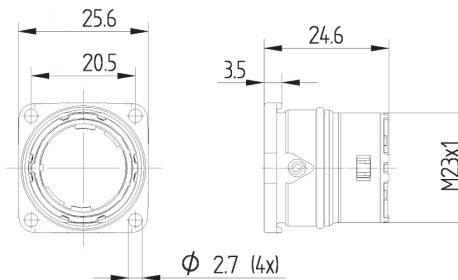
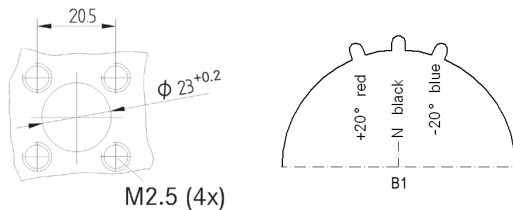
44420022

+20°

44420026

EPIC® CIRCON M23 Connector Style B2

Rear Wall Mounting



All dimensions are in mm.



Complete the Installation



Crimp Tool:
11148000



Locator:
11148300



Removal Tool:
44420078

Keying

Part Number

N

44420050

-20°

44420052

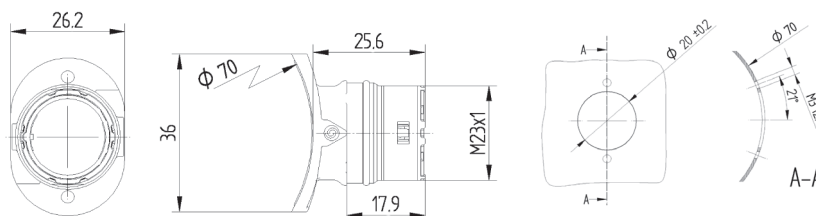
+20°

44420035

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For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.

EPIC® CIRCON M23 Connector Style O1

Curved Surface Front Mount



All dimensions are in mm.

Mounting Diameter	Part Number
50 mm	44420083
58 mm	44420085
70 mm	44420087
90 mm	44420028

Complete the Installation



Crimp Tool:
11148000



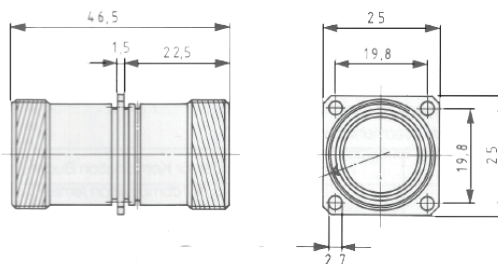
Locator:
11148300



Removal Tool:
44420078

EPIC® CIRCON M23 Connector Style C2

Panel Mount Feed-Through



All dimensions are in mm.

Description	Part Number
12 contact ME/FP	00010108
17 contact ME/FP	00010521

Maximum wall thickness is 3 mm.

EPIC® CIRCON M23 Accessories

Metal Screw Cap



Style	For Housing Style	Part Number
1	A, F6, G	75018110
2	A, B, F7, O	75018010

Plastic Protection Cap



For Housing Style	Part Number
D6	75007710
A, B, F, G, O	75007810

SILVYN® Adapter



Accessory Thread	Part Number
M20 x 1.5	55001312

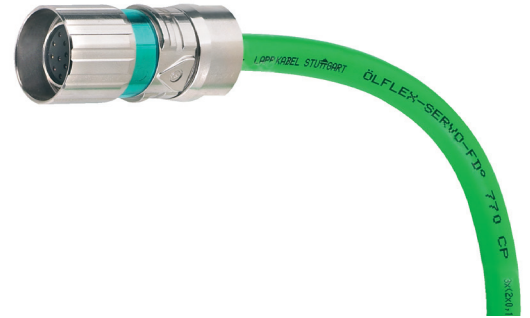
Allows connection to jacketed cable run in conduit.

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For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.

EPIC® CIRCON M23 & ÖLFLEX® Cables

Stationary, Flexible & Continuous Flex Applications



Stationary & Flexible Applications

Application	M23 Connector Configuration			
	6 & 7 Poles	page	8+1, 9, 12, 16 & 17 Poles	page
Industrial Equipment Control & Signal	ÖLFLEX® 190/190 CY	26	UNITRONIC® 300/300 S	208
	ÖLFLEX® 490 P/490 CP	32	UNITRONIC® 190/190 CY	211
	ÖLFLEX® 590 P/590 CP	34		
	ÖLFLEX® TC 600	50		
	ÖLFLEX® TRAY II	52		
	ÖLFLEX® SPIRAL 400 P	147		
	ÖLFLEX® SPIRAL 540 P	149		
Servo Feedback (SIEMENS®)	—		Servo cables acc. to SIEMENS® Standard 6FX 5008:	113
			0027975 22 AWG/4pr + 20 AWG/4c	
			0027976 26 AWG/3pr + 26 AWG/4c + 20 AWG/1pr	
			0027977 26 AWG/3pr + 26 AWG/4c + 20 AWG/1pr + 24 AWG/4c	

Continuous Flex Applications

Application	M23 Connector Configuration			
	6 & 7 Poles	page	8+1, 9, 12, 16 & 17 Poles	page
Industrial Equipment Control & Signal	ÖLFLEX® FD 890/890 CY	61	UNITRONIC® FD 890	230
	ÖLFLEX® FD 891 P	71	UNITRONIC® FD P plus	233
			UNITRONIC® FD CP plus	234
			UNITRONIC® FD CP (TP) plus	235
Servo Feedback (SIEMENS®)	—		Servo cables acc. to SIEMENS® Standard FX 8 Plus:	111
			00277111 22 AWG/4pr + 20 AWG/4c	
			00277131 26 AWG/3pr + 26 AWG/4c + 20 AWG/1pr	
			00277141 26 AWG/3pr + 26 AWG/4c + 20 AWG/1pr + 24 AWG/4c	
Servo Feedback (INDRAMAT®)	—		Servo cables acc. to INDRAMAT® Standard INK:	115
			7072400 24 AWG/4pr + 18 AWG/2c	
			7072401 24 AWG/4pr + 20 AWG/2c	
			7072402 20 AWG/9c	

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EPIC® ZYLIN R3.0 Series



The EPIC® ZYLIN R3.0 series of circular connectors is an extension to the EPIC® CIRCON M23 series when additional contacts are required.

Note: Parts are specified separately but sold assembled. Always use combination part number when ordering.

Technical Data

Number of Contacts:	21, 26	Mating Cycles:	500 (higher mating cycles depends on the application)
Temperature Range:	-40°C to +100°C short term: up to +125°C	Insulation:	B: corresponds to equipment used primarily in precision engineering workshops, laboratories, testing centers, hospitals, etc.
Rated Voltage:	24V AC / 60V DC	Materials:	
Rated Current:	7.5A	- Housing:	Nickel-plated copper alloy
Test Voltage:	1.5 kV AC	- Insulation body:	Thermoplastic, V-0 per UL 94
Protection Class:	IP65/67 when mated DIN 40050 (dependent on cable gland used)	- Contacts:	Gold-plated copper alloy
Wire Gauge (Solder):	up to 18 AWG (1 mm ²)	- Gaskets:	Neoprene
Cable Diameter:	6.5 - 16 mm	Contact Resistance:	< 3 mΩ

Combination Part Numbers

Housing Part Number	21 Contact Inserts		26 Contact Inserts	
	Male 40.200121	Female 40.250121	Male 40.200126	Female 40.250126
Connectors				
20.2040AF	00009045	00008749	00008899	00008829
20.2050AF	00008854	00008779	00008822	00008979
Panel Mount Sockets				
20.2010AA	00008747	00008867	00008825	00008746
20.2020AA	00009082	00009135	00009700	00008978
20.2030AA	00010621	00010041	00008939	00009470
20.2060AA	00009371	00009057	00009894	00009005

Always use combination part number when ordering.

Example:

Housing: 20.2040AF
+
Insert: 40.200121
=
Combination: 00009045

Accessories & Tools

Metal Screw Cap



Flat Gasket



Sealing Ring



Assembly Tool



Style	Part Number
D6	50204121
A	50201120

Style	Part Number
A	50201203
B1, B2	50202203

Style	Part Number
G1	50206204

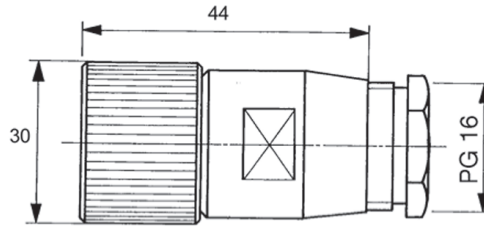
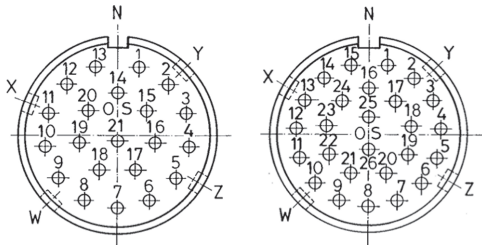
Style	Part Number
D6, F6	50200800

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EPIC® ZYLIN R3.0 Connector Style D6

Cable Connector; 202040AF



All dimensions are in mm.

Complete the Installation



Screw Cap:
50204121

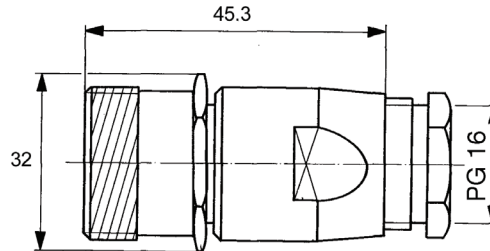
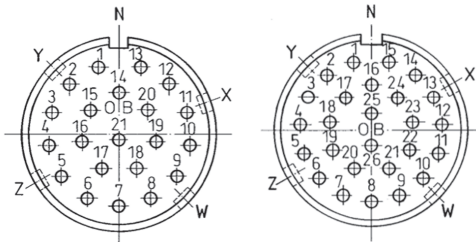


Assembly Tool:
50200800

Number of Contacts	Part Number	
	Male (E)	Female (P)
21	00009045	00008749
26	00008899	00008829

EPIC® ZYLIN R3.0 Connector Style F6

Cable Connector; 202050AF



All dimensions are in mm.

Complete the Installation

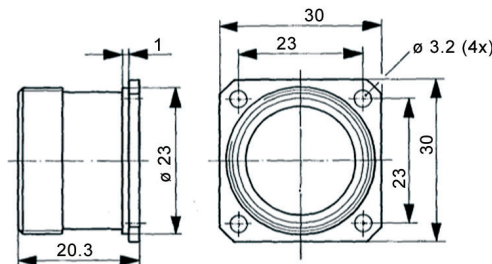
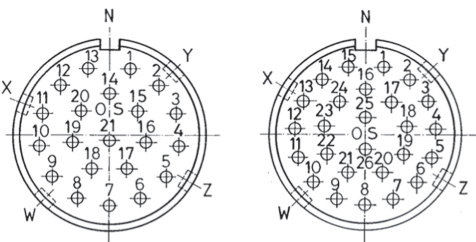


Assembly Tool:
50200800

Number of Contacts	Part Number	
	Male (E)	Female (P)
21	00008854	00008779
26	00008822	00008979

EPIC® ZYLIN R3.0 Connector Style A

Panel Mount Base: Front Wall Mounting; 202010AA



All dimensions are in mm.

Complete the Installation



Screw Cap:
50201120



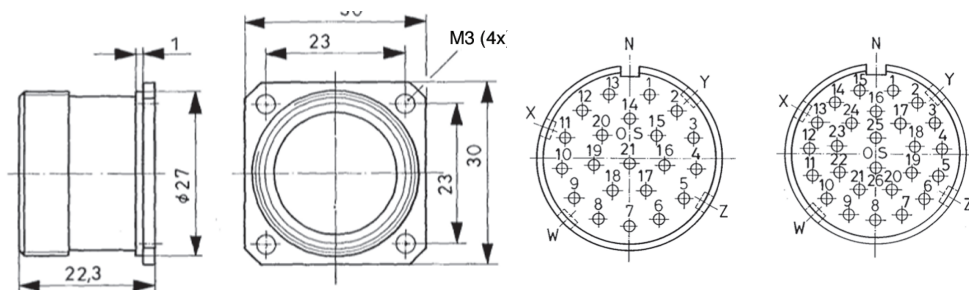
Flat Gasket:
50201203

Number of Contacts	Part Number	
	Male (E)	Female (P)
21	00008747	00008867
26	00008825	00008746

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EPIC® ZYLIN R3.0 Connector Style B1

Panel Mount Base: Inside of Panel Mounting; 202020AA



All dimensions are in mm.

Number of Contacts	Part Number	
	Male (E)	Female (P)
21	00009082	00009135
26	—	00008978

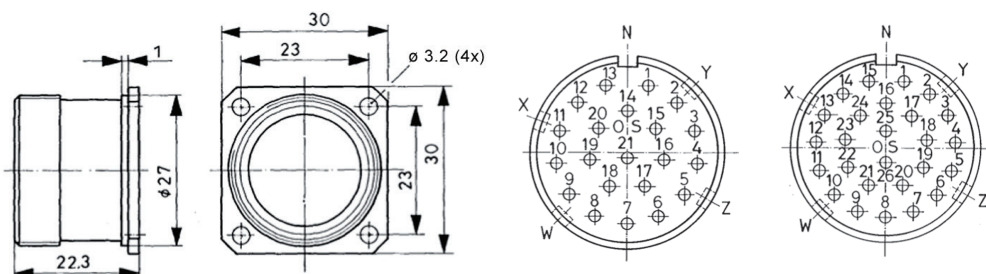
Complete the Installation



Flat Gasket:
50202203

EPIC® ZYLIN R3.0 Connector Style B2

Panel Mount Base: Inside of Panel Mounting; 202030AA



All dimensions are in mm.

Number of Contacts	Part Number	
	Male (E)	Female (P)
21	—	—
26	00008939	00009470

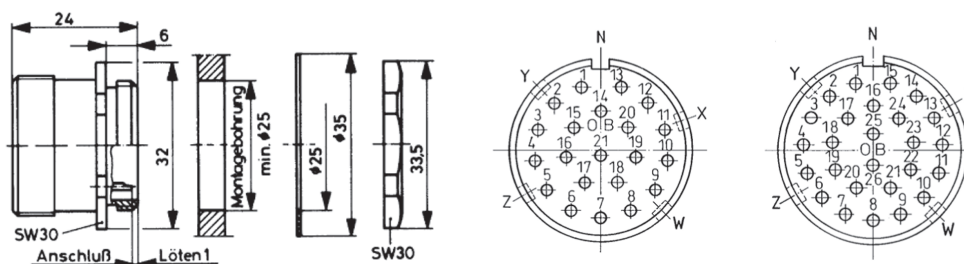
Complete the Installation



Flat Gasket:
50202203

EPIC® ZYLIN R3.0 Connector Style G1

Panel Mount Base: Inside of Panel with Locknut; 202060AA



All dimensions are in mm.

Number of Contacts	Part Number	
	Male (E)	Female (P)
21	00009371	00009057
26	00009894	00009005

Complete the Installation

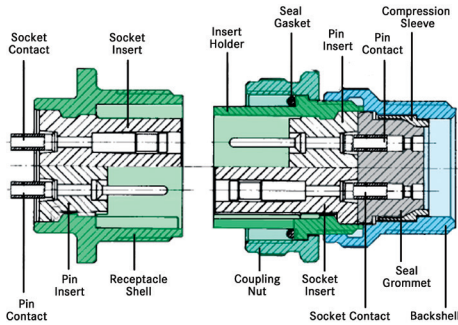
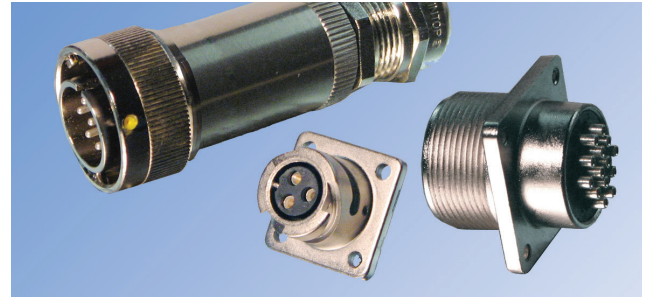


Sealing Ring:
50206204

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EPIC® EAB & EAC Series (MIL-C-5015)

Box Mount
ReceptacleStraight Plug
Connector

■ Application Advantage

- Rugged nickel-plated aluminum alloy body
- TPE insert material provides a high degree of environmental and chemical resistance
- Available backshell designs provide strain relief, IP67 protection, and 360° EMC shielding
- All materials used are RoHS compliant
- Standard crimp contacts provide easy assembly and replacement
- EAC series connectors are fully interchangeable and interchangeable with connectors produced in accordance with MIL-C-5015
- EAB series connectors use a three-point bayonet coupling which provides positive vibration protection for use with motor drives and moving assemblies. They are fully interchangeable and interchangeable with connectors produced in accordance with MIL-C-5015 (inserts) and VG95234 (housings).

The connectors are offered with insert configurations from 3 to 17 crimp contacts. Used in combination, they connect one cable with another (cable coupler) or a cable to a fixed wiring in a control enclosure or on a machine, robot, instrument, or servo motor.

EPIC® EAB & EAC connectors have many inherent features which offer application advantages and provide significant benefits for the customer. These features make it one of the most application-friendly connectors available, and ensure quick and easy assembly, high reliability, and long uninterrupted service life in tough industrial environments.

■ Standards

MIL-C-5015

VG95234



EPIC® EAB and EAC series connectors are available in 4 housing styles, 3 sizes, and 5 contact configurations. Common to all arrangements are a rugged nickel-plated aluminum alloy body with either threaded coupling (EAC) or reverse bayonet coupling (EAB), thermoplastic rubber contact inserts, and silver-plated electrical contacts. Cable-mounted arrangements are also available with an integral 360° EMC shield and cable clamp with environmental seal. The figure above shows the general construction of these connectors. All housings are available with either male pin or female socket contacts.

■ Technical Data

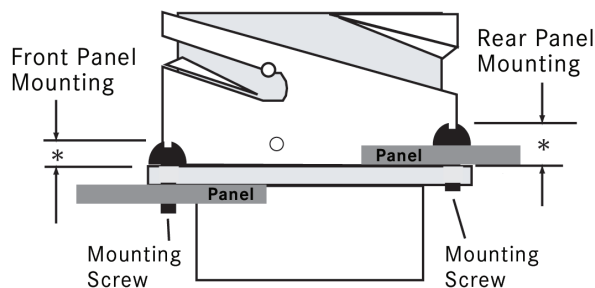
Number of Contacts:	3, 4, 6, 14, 17	Wire Gauge:	
Temperature Range:	-55°C to +125°C	- Crimp termination:	
Rated Voltage:		- Size 16 contacts:	18 - 16 AWG
- Inst.:	200V AC/250V DC	- Size 12 contacts:	14 - 12 AWG
- Class A:	500V AC/700V DC	Cable Diameter:	0.197 - 0.827 in (5 - 21 mm) depending on housing size
- Class D:	900V AC/1250V DC	Mating Cycles:	500 minimum
Rated Current:		Materials:	
- Size 16 contacts:	13A	- Housing:	Nickel-plated aluminum alloy
- Size 12 contacts:	23A	- Contacts:	Silver-plated copper alloy (QQ-S-365)
Test Voltage:		- Contact insert:	TPE synthetic rubber, V-0 per UL 94
- Inst.:	1000V	- Gaskets & seals:	TPE synthetic rubber, V-0 per UL 94
- Class A:	2000V	Standards:	MIL-C-5015
- Class D:	2800V		QQ-S-365
Environmental Seal:	MIL-C-5015 (MIL-STD 202/1344)		VG95234 (EAB Series)
- Class J & S:	IP67 equivalent (when mated)		RoHS

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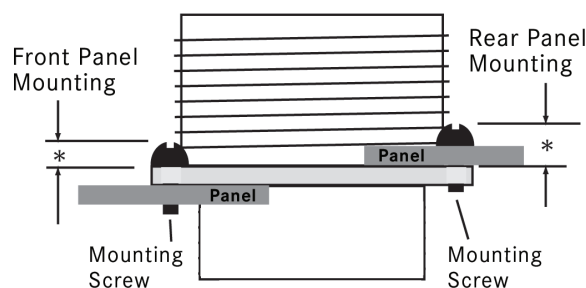
EPIC® EAB & EAC Series

Maximum Panel Thickness

EAB



EAC



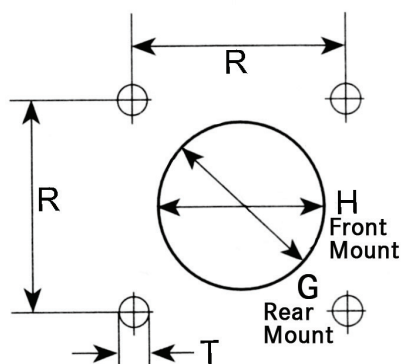
EAB Series

Front Mount Screw Height		Rear Mount Screw + Panel	
(inches)	(mm)	(inches)	(mm)
EAB Shell Size 14S			
—	—	—	—
EAB Shell Size 16			
0.138	3.50	0.138	3.50
EAB Shell Size 20			
0.138	3.50	0.138	3.50

EAC Series

Front Mount Screw Height		Rear Mount Screw + Panel	
(inches)	(mm)	(inches)	(mm)
EAC Shell Size 14S			
0.125	3.18	0.125	3.18
EAC Shell Size 16			
—	—	—	—
EAC Shell Size 20			
0.125	3.18	0.125	3.18

Panel Cut-out Dimensions



H		R		T		G	
(inches)	(mm)	(inches)	(mm)	(inches)	(mm)	(inches)	(mm)
Shell Size 14S							
0.774	19.7	0.906	23.0	0.130	3.3	0.980	24.9
Shell Size 16							
0.900	22.9	0.969	24.6	0.130	3.3	1.090	27.7
Shell Size 20							
1.150	29.2	1.157	29.4	0.130	3.3	1.358	34.5

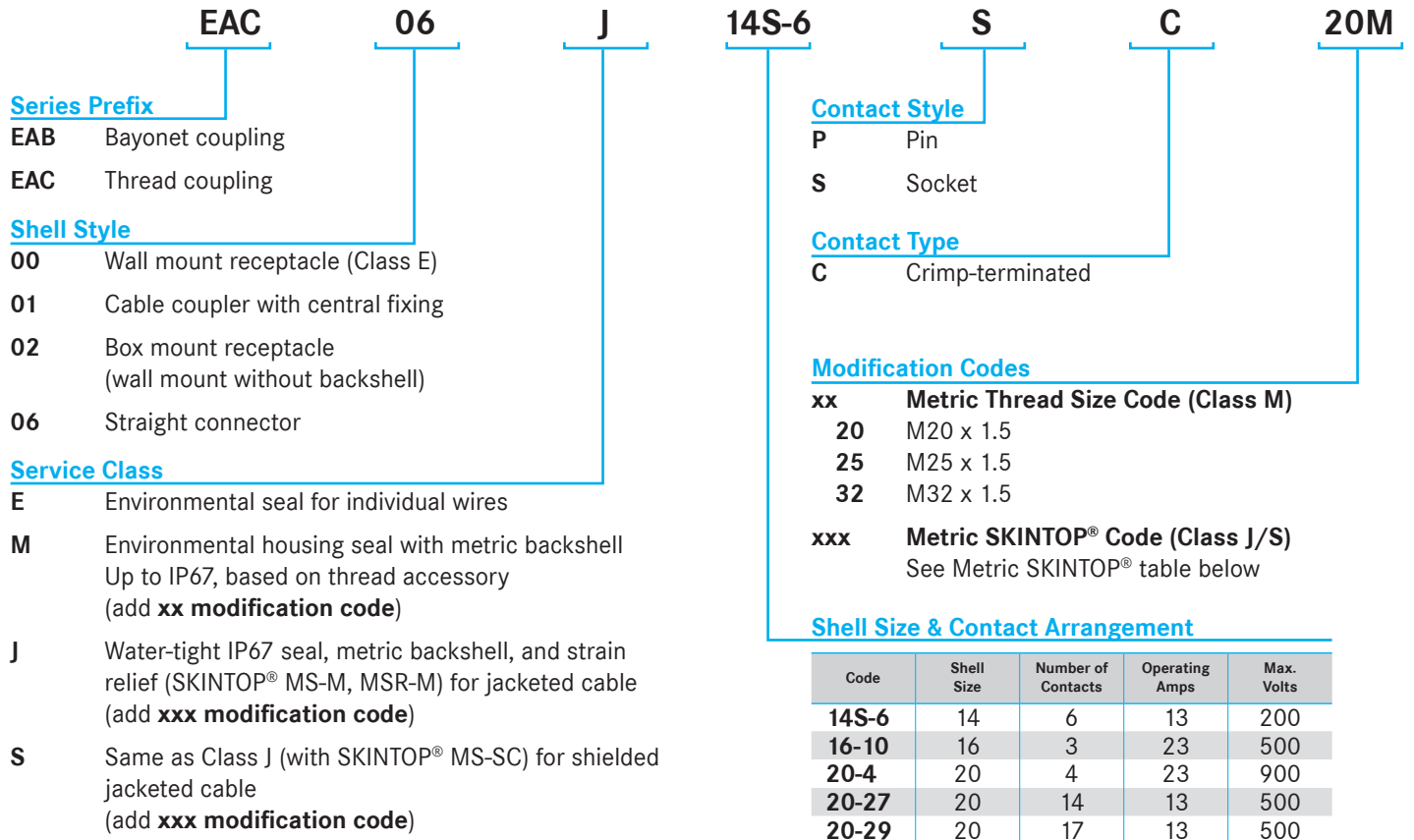
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EPIC® EAB & EAC Series

Part Number Construction

Part Number Example:



Metric SKINTOP® Selection

Modification Code	Thread Size	Shell Size	SKINTOP® Type	Reference Part Number	Cable Outer Diameter Range		Service Class
					(inches)	(mm)	
20M	M20	14	MS-M	53112020	0.276 - 0.512	7.0 - 13.0	J
20R	M20	14	MSR-M	53112120	0.197 - 0.394	5.0 - 10.0	J
20S	M20	14	MS-SC	53112630	0.276 - 0.492	7.0 - 12.5	S
25M	M25	16	MS-M	53112030	0.354 - 0.669	9.0 - 17.0	J
25R	M25	16	MSR-M	53112130	0.236 - 0.512	6.0 - 13.0	J
25S	M25	16	MS-SC	53112640	0.354 - 0.650	9.0 - 16.5	S
32M	M32	20	MS-M	53112040	0.433 - 0.827	11.0 - 21.0	J
32R	M32	20	MSR-M	53112140	0.276 - 0.591	7.0 - 15.0	J
32S	M32	20	MS-SC	53112650	0.433 - 0.827	11.0 - 21.0	S

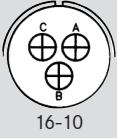
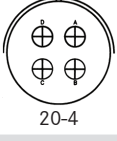
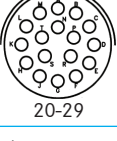
For a list of available part numbers for ordering, consult the table on the following page.

EPIC® EAB & EAC Series

Available Part Numbers

Shell Style/ Service Class	Contact Configuration				
	14S-6 (EAC)	16-10 (EAB)	20-4 (EAC)	20-27 (EAB)	20-29 (EAC)
00: Wall Mount Receptacles					
Class E	EAC00E14S-6PC	EAB00E16-10PC	EAC00E20-4PC	EAB00E20-27PC	EAC00E20-29PC
Class E	EAC00E14S-6SC	EAB00E16-10SC	EAC00E20-4SC	EAB00E20-27SC	EAC00E20-29SC
01: Cable Couplers Central Fixing					
Class E	EAC01E14S-6PC	EAB01E16-10PC	EAC01E20-4PC	EAB01E20-27PC	EAC01E20-29PC
Class E	EAC01E14S-6SC	EAB01E16-10SC	EAC01E20-4SC	EAB01E20-27SC	EAC01E20-29SC
Class M	EAC01M14S-6PC20	EAB01M16-10PC25	EAC01M20-4PC32	EAB01M20-27PC32	EAC01M20-29PC32
Class M	EAC01M14S-6SC20	EAB01M16-10SC25	EAC01M20-4SC32C	EAB01M20-27SC32C	EAC01M20-29SC32C
Class J	EAC01J14S-6PC20M	EAB01J16-10PC25M	EAC01J20-4PC32M	EAB01J20-27PC32M	EAC01J20-29PC32M
Class J	EAC01J14S-6PC20R	EAB01J16-10PC25R	EAC01J20-4PC32R	EAB01J20-27PC32R	EAC01J20-29PC32R
Class J	EAC01J14S-6SC20M	EAB01J16-10SC25M	EAC01J20-4SC32M2	EAB01J20-27SC32M	EAC01J20-29SC32M
Class J	EAC01J14S-6SC20R	EAB01J16-10SC1425R	EAC01J20-4SC32R	EAB01J20-27SC32R	EAC01J20-29SC32R
Class S	EAC01S14S-6PC20S	EAB01S16-10PC25S	EAC01J20-4PC32S	EAB01S20-27P32S	EAC01S20-29PC32S
Class S	EAC01S14S-6SC20S	EAB01S16-10SC25S	EAC01S20-4SC32S	EAB01S20-27SC32S	EAC01S20-29SC32S
02: Box Mount Receptacles					
Class E	EAC02E14S-6PC	EAB02E16-10PC	EAC02E20-4PC	EAB02E20-27PC	EAC02E20-29PC
Class E	EAC02E14S-6SC	EAB02E16-10SC	EAC02E20-4SC	EAB02E20-27SC	EAC02E20-29SC
06: Straight Connectors					
Class E	EAC06E14S-6PC	EAB06E16-10PC	EAC06E20-4PC	EAB06E20-27PC	EAC06E20-29PC
Class E	EAC06E14S-6SC	EAB06E16-10SC	EAC06E20-4SC	EAB06E20-27SC	EAC06E20-29SC
Class M	EAC06M14S-6PC20	EAB06M16-10PC25	EAC06M20-4PC32	EAB06M20-27PC32	EAC06M20-29PC32
Class M	EAC06M14S-6SC20	EAB06M16-10SC25	EAC06M20-4SC32	EAB06M20-27SC32	EAC06M20-29SC32
Class J	EAC06J14S-6PC20M	EAB06J16-10PC25M	EAC06J20-4PC32M	EAB06J20-27PC32M	EAC06J20-29PC32M
Class J	EAC06J14S-6PC20R	EAB06J16-10PC25R	EAC06J20-4PC32R	EAB06J20-27PC32R	EAC06J20-29PC32R
Class J	EAC06J14S-6SC20M	EAB06J16-10SC25M	EAC06J20-4SC32M	EAB06J20-27SC32M	EAC06J20-29SC32M
Class J	EAC06J14S-6SC20R	EAB06J16-10SC25R	EAC06J20-4SC32R	EAB06J20-27SC32R	EAC06J20-29SC32R
Class S	EAC06S14S-6PC20S	EAB06S16-10PC25S	EAC06S20-4PC32S	EAB06S20-27PC32S	EAC06S20-29PC32S
Class S	EAC06S14S-6SC20S	EAB06S16-10SC25S	EAC06S20-4SC32S	EAB06S20-27SC32S	EAC06S20-29SC32S

Circular Connector Inserts

Shell Size	Insert	Series Offered	Number of Contacts	Voltage Class	Contact Size	
					⊕ 12 (14 - 12 AWG)	○ 16 (18 - 16 AWG)
14	 14S-6	EAC	6	Inst.	—	6
16	 16-10	EAB	3	A	3	—
20	 20-4	EAC	4	D	4	—
20	 20-27	EAB	14	A	—	14
20	 20-29	EAC	17	A	—	17

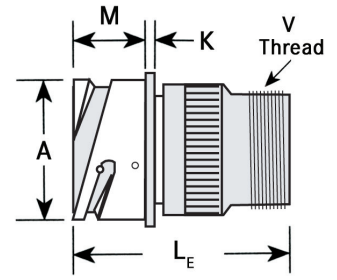
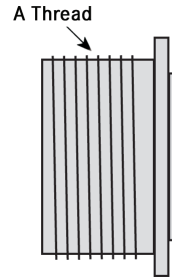
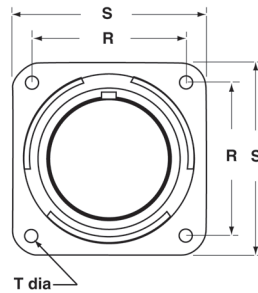
Photographs are not to scale and are not true representations of the products in question.

For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.

EPIC® EAB & EAC Wall Mount Receptacles

Shell Style 00

Class E



Mates with style 06 connectors.

Units	Dimensions								
	A	A Thread	K	L _E max.*	M	R	S	T	V Thread
Shell Size: 14S									
in	0.969	0.875 - 20	0.126	1.575	0.567	0.906	1.181	0.126	0.750 - 20
mm	24.6	UNE F	3.2	40.0	14.4	23.0	30.0	3.2	UNE F
Shell Size: 16									
in	1.079	1.000 - 20	0.126	2.016	0.756	0.969	1.280	0.126	0.875 - 20
mm	27.4	UNE F	3.2	51.2	19.2	24.6	32.5	3.2	UNE F
Shell Size: 20									
in	1.346	1.250 - 18	0.154	2.016	0.756	1.157	1.496	0.126	1.188 - 18
mm	34.2	UNE F	3.9	51.2	19.2	29.4	38.0	3.2	UNE F

* L dimension = total connector length, including cable accessory

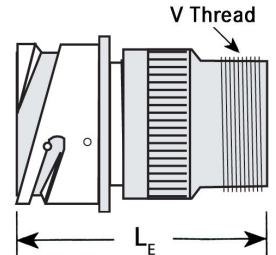
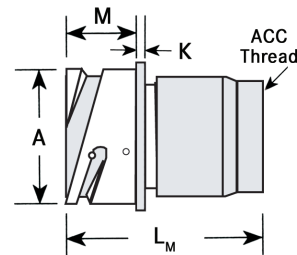
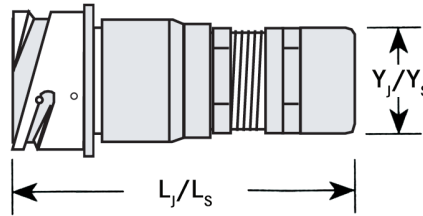
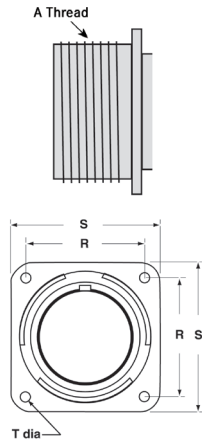
EPIC® EAB & EAC Cable Coupler Receptacles

With Central Fixing; Shell Style 01

Class J/S

Class M

Class E



Mates with style 06 connectors.

Units	Dimensions											
	A	A Thread	K	L _E max.*	L _M max.*	L _J /L _S max.*	M	S	Y _J /Y _S max.	Nominal Cable Outer Diameter**	ACC Thread	V Thread
Shell Size: 14S												
in	0.969	0.875 - 20	0.126	1.575	2.317	3.459	0.567	1.165	1.075	0.276 - 0.492	M20	0.750 - 20
mm	24.6	UNE F	3.2	40.0	58.9	87.9	14.4	29.6	27.3	7.0 - 12.5	—	UNE F
Shell Size: 16												
in	1.079	1.000 - 20	0.126	2.016	2.758	3.959	0.756	1.260	1.280	0.354 - 0.650	M25	0.875 - 20
mm	27.4	UNE F	3.2	51.2	70.1	100.6	19.2	32.0	32.5	9.0 - 16.5	—	UNE F
Shell Size: 20												
in	1.346	1.250 - 18	0.154	2.016	2.953	4.390	0.756	1.500	1.594	0.433 - 0.827	M32	1.188 - 18
mm	34.2	UNE F	3.9	51.2	75.0	111.5	19.2	38.1	40.5	11.0 - 21.0	—	UNE F

* L dimension = total connector length, including cable accessory

** For exact OD range, see SKINTOP® MS-M (page 523) or MS-M-SC (page 528)

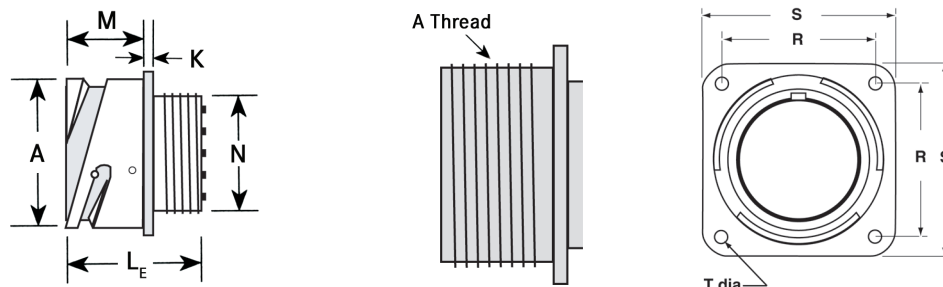
Photographs are not to scale and are not true representations of the products in question.

For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.

EPIC® EAB & EAC Box Mount Receptacles

Wall Mount without Backshell; Shell Style 02

Class E



Mates with style 06 connectors.

Units	Dimensions								
	A	A Thread	K	L _E max.*	M	N	R	S	T
Shell Size: 14S									
in	0.969	0.875 - 20	0.126	0.972	0.567	0.754	0.906	1.181	0.126
mm	24.6	UNEF	3.2	24.7	14.4	19.2	23.0	30.0	3.2
Shell Size: 16									
in	1.079	1.000 - 20	0.126	1.358	0.756	0.880	0.969	1.280	0.126
mm	27.4	UNEF	3.2	34.5	19.2	22.4	24.6	32.5	3.2
Shell Size: 20									
in	1.346	1.250 - 18	0.154	1.358	0.756	1.130	1.157	1.496	0.126
mm	34.2	UNEF	3.9	34.5	19.2	28.7	29.4	38.0	3.2

* L dimension = total connector length, including cable accessory

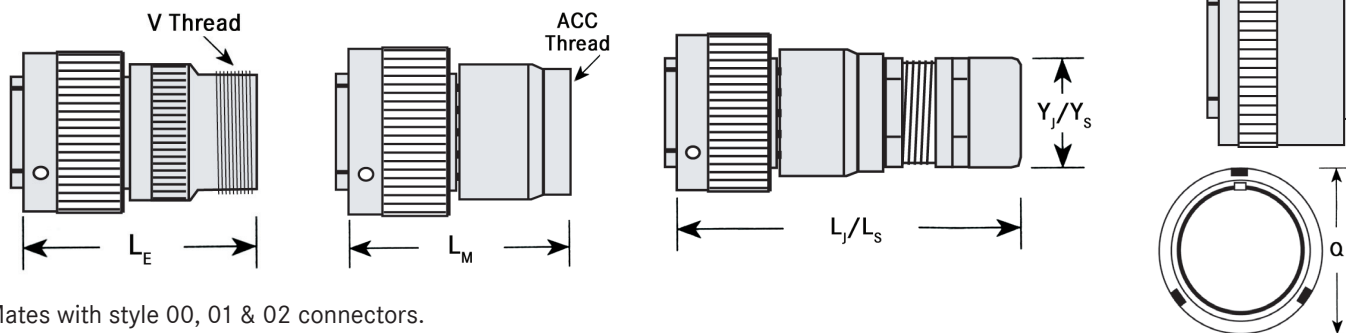
EPIC® EAB & EAC Straight Plug Connectors

Shell Style 06

Class E

Class M

Class J/S



Mates with style 00, 01 & 02 connectors.

Units	Dimensions									
	A Thread	L _E max.*	L _M max.*	L _J /L _S max.*	Q (EAB)	Q (EAC)	Y _J /Y _S max.	Nominal Cable Outer Diameter**	ACC Thread	V Thread
Shell Size: 14S										
in	0.875 - 20	1.575	2.317	3.459	1.142	1.102	1.075	0.276 - 0.492	M20	0.750 - 20
mm	UNEF	40.0	58.9	87.9	29.0	28.0	27.3	7.0 - 12.5	—	UNEF
Shell Size: 16										
in	1.000 - 20	2.016	2.758	3.959	1.252	1.240	1.280	0.354 - 0.650	M25	0.875 - 20
mm	UNEF	51.2	70.1	100.6	31.8	31.5	32.5	9.0 - 16.5	—	UNEF
Shell Size: 20										
in	1.250 - 18	2.016	2.953	4.390	1.567	1.469	1.594	0.433 - 0.827	M32	1.183 - 18
mm	UNEF	51.2	75.0	111.5	39.8	37.3	40.5	11.0 - 21.0	—	UNEF

* L dimension = total connector length, including cable accessory

** For exact OD range, see SKINTOP® MS-M (page 523) or MS-M-SC (page 528)

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For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.

EPIC® EAB & EAC Tools

Crimp Gauge
Go/No-Go

Contact Size	Part Number
16, 12	61U05399

Turret Head



Contact Size	Part Number
16, 12	61U05398

Crimp Tool



Contact Size	Part Number
16, 12	61U05397

Insertion Tool



Contact Size	Part Number
16	61U05400
12	61U05401

Removal Tool



Contact Size	Part Number
16	61U05403
12	61U05404

SKINDICHT® Reducers, Enlargers & Adapters

For Use with Class M Connectors

Reducers



Enlargers

Metric → NPT
AdapterMetric → PG
Adapter AMetric → PG
Adapter B

Shell Size	Reducers		Enlargers		Metric → NPT		Metric → PG A		Metric → PG B	
	Size Difference	Part Number	Size Difference	Part Number	Size Difference	Part Number	Size Difference	Part Number	Size Difference	Part Number
M20 Adapters										
14S	M20 → M16	52104312	M20 → M25	52104454	M20 → ½"	54020110	M20 → PG 9	52104210	M20 → PG 11	52104360
M25 Adapters										
16	M25 → M20	52104314	M25 → M32	52104456	M25 → ¾"	54020130	M25 → PG 16	52104240	M25 → PG 21	52104400
M32 Adapters										
20	M32 → M25	52104316	M32 → M40	52104458	M32 → 1"	54020152	M32 → PG 21	52104260	M32 → PG 29	52104410

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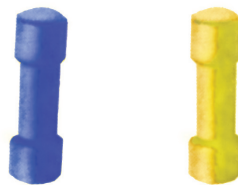
EPIC® EAB & EAC Accessories

Panel Gaskets



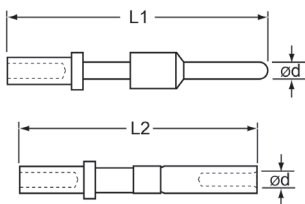
Shell Size	Part Number
14	61U05316
16	61U05317
20	61U05319

Grommet Hole Seal Plugs



Contact Size	Color	Part Number
16	Blue	61U05332
12	Yellow	61U05333

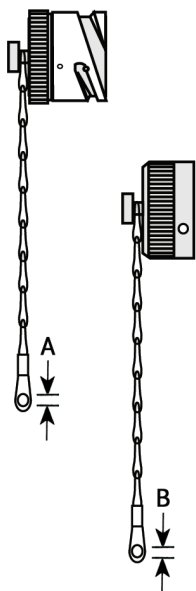
Replacement Contacts



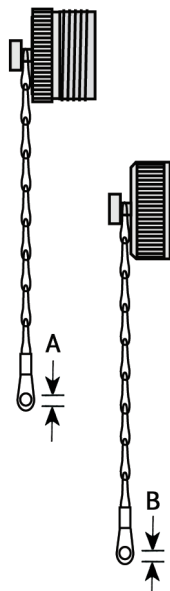
Contact Size		L1		L2		ød		Part Number		Strip Length	
mm ²	AWG	(inches)	(mm)	(inches)	(mm)	(inches)	(mm)	Pin	Socket	(inches)	(mm)
Size 16 Contacts											
1.0 - 1.5	18 - 16	1.250	31.7	1.440	36.5	0.062	1.6	61U05336	61U05340	0.312	7.9
Size 12 Contacts											
2.5 - 4.0	14 - 12	1.480	37.7	1.480	37.7	.093	2.4	61U05337	61U05341	0.312	7.9

Connector Dust Caps

EAB Series



EAC Series



Shell Size	Plug Cap Chain Hole Diameter		Part Number Plug Cap*	Receptacle Cap Chain Hole Diameter		Part Number Receptacle Cap**
(inches)	(mm)			(inches)	(mm)	
EAB Series						
16	0.157	4.0	61U05369	0.142	3.6	61U05361
20	0.189	4.8	61U05371	0.142	3.6	61U05363
EAC Series						
14S	0.157	4.0	61U05352	0.142	3.6	61U05344
20	0.189	4.8	61U05355	0.142	3.6	61U05347

* Protective plug caps for use with style 06 connectors.

** Protective receptacle caps for use with style 00, 01 & 02 connectors.

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EPIC® EAB/EAC & ÖLFLEX® Cables

Stationary, Flexible & Continuous Flex Applications



Stationary & Flexible Applications

EAB/EAC Connector Configuration			
Power	page	Control	page
ÖLFLEX® 190/190 CY	26	ÖLFLEX® 190/190 CY	26
ÖLFLEX® TC 600/600 S	50	ÖLFLEX® CONTROL TM	30
ÖLFLEX® TRAY II/II CY	52	ÖLFLEX® TC 600/600 S	50
ÖLFLEX® VFD SLIM	96	ÖLFLEX® TRAY II/II CY	52
ÖLFLEX® SERVO 709 CY	109	ÖLFLEX® AUTO-I	54
ÖLFLEX® POWER QUAD II	127	ÖLFLEX® FORTIS	55
ÖLFLEX® POWER IX	129		

Continuous Flex Applications

EAB/EAC Connector Configuration			
Power	page	Control	page
ÖLFLEX® FD 890/890 CY	61	ÖLFLEX® FD 890/890 CY	61
ÖLFLEX® FD 891 P	71	ÖLFLEX® 891 P	71
ÖLFLEX® ROBOT 900 P/900 DP	79	ÖLFLEX® FD AUTO-X	75
		ÖLFLEX® ROBOT 900 P/900 DP	79

EPIC® EPT Series (MIL-C-26482)



EPIC® EPT connectors have many inherent features which offer application advantages and provide significant benefits for the customer. These features make it one of the most application-friendly connectors available, and ensure quick and easy assembly, high reliability, and long uninterrupted service life in tough industrial environments.

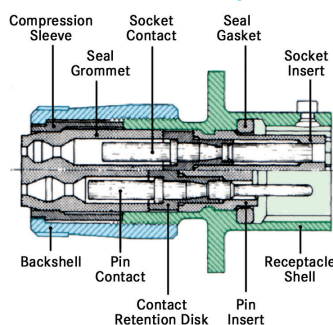
Standards

MIL-C-26482

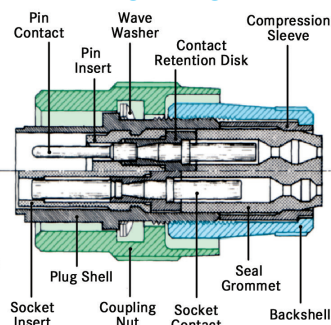


EPIC® EPT series connectors are available in 4 housing styles, 3 sizes, and 5 contact configurations. Common to all arrangements are a rugged nickel-plated aluminum alloy body, thermoplastic rubber contact inserts, and gold-plated electrical contacts. Cable-mounted arrangements are also available with an integral 360° EMC shield and cable clamp with environmental seal. The figure above shows the general construction of these connectors. All housings are available with either male pin or female socket contacts.

Wall Mount Receptacle



Straight Plug Connector



Application Advantage

- Rugged nickel-plated aluminum alloy body
- TPE insert material provides a high degree of environmental and chemical resistance
- Three-point bayonet coupling provides positive vibration protection for use with motor drives and moving assemblies
- Available backshell designs provide strain relief, IP67 protection, and 360° EMC shielding
- All materials used are RoHS compliant
- Standard crimp contacts provide easy assembly and replacement
- Connectors are fully intermateable and interchangeable with connectors produced in accordance with MIL-C-26482 Series 1 & 2

The connectors are offered with insert configurations from 5 to 19 crimp contacts. Used in combination, they connect one cable with another (cable coupler) or a cable to a fixed wiring in a control enclosure or on a machine, robot, instrument, or servo motor.

Technical Data

Number of Contacts: 5, 6, 10, 8+4, 19

Temperature Range: -55°C to +125°C

Rated Voltage:

- Class 1: 600V AC/850V DC
- Class 2: 1000V AC/1400V DC

Rated Current:

- Size 20 contacts: 7.5A
- Size 16 contacts: 13A

Test Voltage:

- Class 1: 1500V AC/2100V DC
- Class 2: 2300V AC/3200V DC

Environmental Seal:

MIL-C-26482
(MIL-STD 202/1344)
- Class J & S: IP67 equivalent (when mated)

Wire Gauge:

- Crimp termination:
- Size 20 contacts: 24-20 AWG
- Size 16 contacts: 20-16 AWG

Cable Diameter:

0.08-0.51 in (2-13 mm)
depending on housing size

Mating Cycles:

500 minimum

Materials:

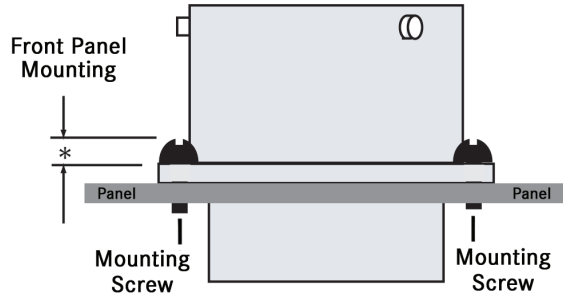
- Housing: Nickel-plated aluminum alloy
- Contacts: Gold-plated copper alloy (MIL-G-45204 Type II)
- Contact insert: TPE synthetic rubber, V-0 per UL 94
- Gaskets & seals: TPE synthetic rubber, V-0 per UL 94

Standards:

MIL-C-26482
MIL-G-45204, Type II
RoHS

EPIC® EPT Series

Maximum Panel Thickness

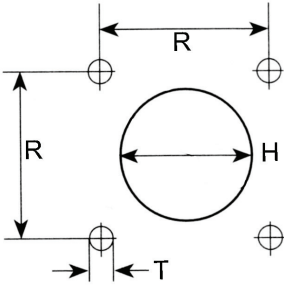


EPT Series

	Front Mount Screw Height	
	(inches)	(mm)
Shell Size 10		
	0.087	2.21
Shell Size 12		
	0.087	2.21
Shell Size 14		
	0.087	2.21

EPT wall & box mount receptacles are usually front-mounted to avoid clearance problems with bayonet pins and coupling nuts.

Panel Cut-out Dimensions



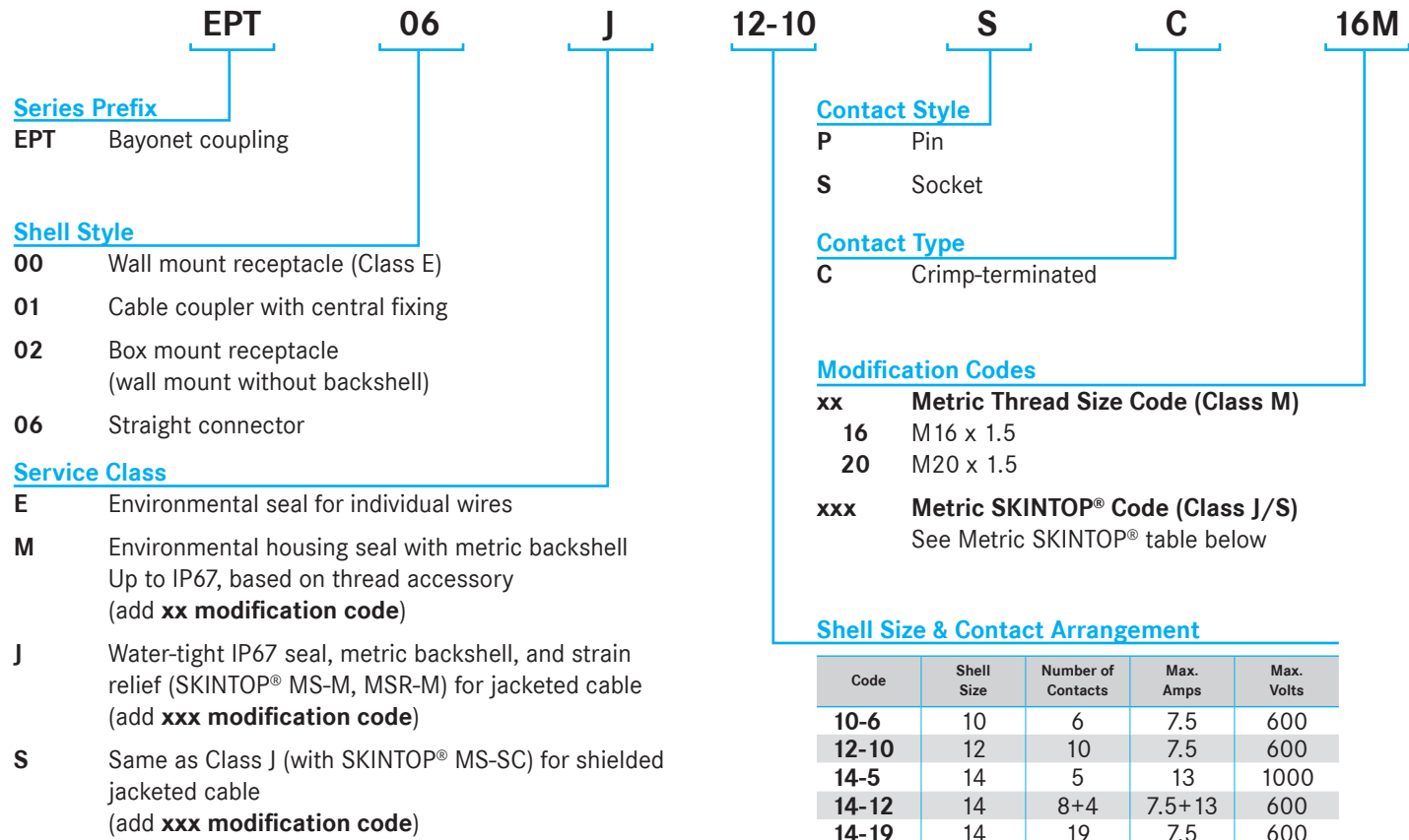
	H		R		T	
	(inches)	(mm)	(inches)	(mm)	(inches)	(mm)
Shell Size 10						
	0.603	15.3	0.719	18.3	0.125	3.18
Shell Size 12						
	0.730	18.5	0.812	20.6	0.125	3.18
Shell Size 14						
	0.855	21.7	0.906	23.0	0.125	3.18

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For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.

EPIC® EPT Series

Part Number Construction

Part Number Example:



Metric SKINTOP® Selection

Code	Thread Size	Shell Size	SKINTOP® Type	Reference Part Number	Cable Outer Diameter Range (inches) (mm)		Service Class
16M	M16	10	MS-M	53112010	0.177 - 0.394	4.5 - 10.0	J
16R	M16	10	MSR-M	53112110	0.079 - 0.276	2.0 - 7.0	J
16S	M16	10	MS-SC	53112620	0.177 - 0.354	4.5 - 9.0	S
20M	M20	12, 14	MS-M	53112020	0.276 - 0.512	7.0 - 13.0	J
20R	M20	12, 14	MSR-M	53112120	0.197 - 0.394	5.0 - 10.0	J
20S	M20	12, 14	MS-SC	53112630	0.276 - 0.492	7.0 - 12.5	S

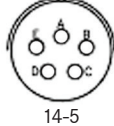
For a list of available part numbers for ordering, consult the table on the following page.

EPIC® EPT Series

Available Part Numbers

Shell Style/ Service Class	Contact Configuration				
	10-6	12-10	14-5	14-12	14-19
00: Wall Mount Receptacles					
Class E	EPT00E10-6PC	EPT00E12-10PC	EPT00E14-5PC	EPT00E14-12PC	EPT00E14-19PC
Class E	EPT00E10-6SC	EPT00E12-10SC	EPT00E14-5SC	EPT00E14-12SC	EPT00E14-19SC
01: Cable Couplers Central Fixing					
Class E	EPT01E10-6PC	EPT01E12-10PC	EPT01E14-5PC	EPT01E14-12PC	EPT01E14-19PC
Class E	EPT01E10-6SC	EPT01E12-10SC	EPT01E14-5SC	EPT01E14-12SC	EPT01E14-19SC
Class M	EPT01M10-6PC16	EPT01M12-10PC20	EPT01M14-5PC20	EPT01M14-12PC20	EPT01M14-19PC20
Class M	EPT01M10-6SC16	EPT01M12-10SC20	EPT01M14-5SC20	EPT01M14-12SC20	EPT01M14-19SC20
Class J	EPT01J10-6PC16M	EPT01J12-10PC20M	EPT01J14-5PC20M	EPT01J14-12PC20M	EPT01J14-19PC20M
Class J	EPT01J10-6PC16R	EPT01J12-10PC20R	EPT01J14-5PC20R	EPT01J14-12PC20R	EPT01J14-19PC20R
Class J	EPT01J10-6SC16M	EPT01J12-10SC20M	EPT01J14-5SC20M	EPT01J14-12SC20M	EPT01J14-19SC20M
Class J	EPT01J10-6SC16R	EPT01J12-10SC20R	EPT01J14-5SC20R	EPT01J14-12SC20R	EPT01J14-19SC20R
Class S	EPT01S10-6PC16S	EPT01S12-10PC20S	EPT01S14-5PC20S	EPT01S14-12PC20S	EPT01S14-19PC20S
Class S	EPT01S10-6SC16S	EPT01S12-10SC20S	EPT01S14-5SC20S	EPT01S14-12SC20S	EPT01S14-19SC20S
02: Box Mount Receptacles					
Class E	EPT02E10-6PC	EPT02E12-10PC	EPT02E14-5PC	EPT02E14-12PC	EPT02E14-19PC
Class E	EPT02E10-6SC	EPT02E12-10SC	EPT02E14-5SC	EPT02E14-12SC	EPT02E14-19SC
06: Straight Connectors					
Class E	EPT06E10-6PC	EPT06E12-10PC	EPT06E14-5PC	EPT06E14-12PC	EPT06E14-19PC
Class E	EPT06E10-6SC	EPT06E12-10SC	EPT06E14-5SC	EPT06E14-12SC	EPT06E14-19SC
Class M	EPT06M10-6PC16	EPT06M12-10PC20	EPT06M14-5PC20	EPT06M14-12PC20	EPT06M14-19PC20
Class M	EPT06M10-6SC16	EPT06M12-10SC20	EPT06M14-5SC20	EPT06M14-12SC20	EPT06M14-19SC20
Class J	EPT06J10-6PC16M	EPT06J12-10PC20M	EPT06J14-5PC20M	EPT06J14-12PC20M	EPT06J14-19PC20M
Class J	EPT06J10-6PC16R	EPT06J12-10PC20R	EPT06J14-5PC20R	EPT06J14-12PC20R	EPT06J14-19PC20R
Class J	EPT06J10-6SC16M	EPT06J12-10SC20M	EPT06J14-5SC20M	EPT06J14-12SC20M	EPT06J14-19SC20M
Class J	EPT06J10-6SC16R	EPT06J12-10SC20R	EPT06J14-5SC20R	EPT06J14-12SC20R	EPT06J14-19SC20R
Class S	EPT06S10-6PC16S	EPT06S12-10PC20S	EPT06S14-5PC20S	EPT06S14-12PC20S	EPT06S14-19PC20S
Class S	EPT06S10-6SC16S	EPT06S12-10SC20S	EPT06S14-5SC20S	EPT06S14-12SC20S	EPT06S14-19SC20S

Circular Connector Inserts

Shell Size	Insert	Series Offered	Number of Contacts	Voltage Class	Contact Size	
					16 (20 - 16 AWG)	20 (24 - 20 AWG)
10	 10-6	EPT	6	1	—	6
12	 12-10	EPT	10	1	—	10
14	 14-5	EPT	5	2	5	—
14	 14-12	EPT	12	1	4	8
14	 14-19	EPT	19	1	—	19

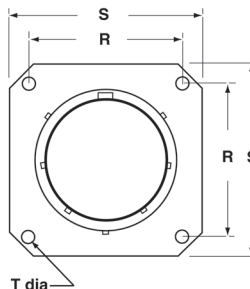
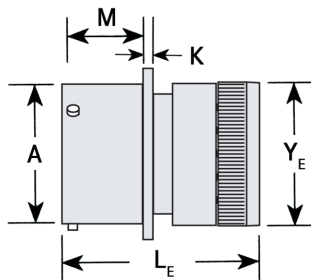
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EPIC® EPT Wall Mount Receptacles

Shell Style 00

Class E



Mates with style 06 connectors.

Units	Dimensions							
	A	K	L _E max.*	M	R	S	T	Y _E max.
Shell Size: 10								
in	0.588	0.062	1.281	0.461	0.719	0.954	0.120	0.734
mm	14.94	1.57	32.54	10.95	18.26	24.23	3.05	18.64
Shell Size: 12								
in	0.748	0.062	1.281	0.431	0.812	1.047	0.120	0.858
mm	19.00	1.57	32.54	10.95	20.63	26.59	3.05	21.79
Shell Size: 14								
in	0.873	0.062	1.281	0.431	0.906	1.141	0.120	0.984
mm	22.17	1.57	32.54	10.95	23.01	28.98	3.05	24.99

* L dimension = total connector length

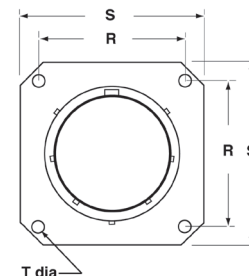
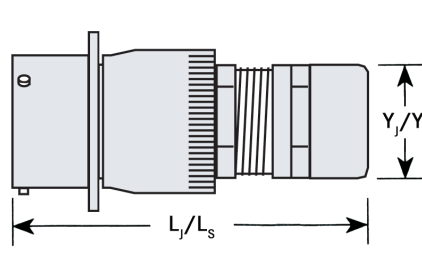
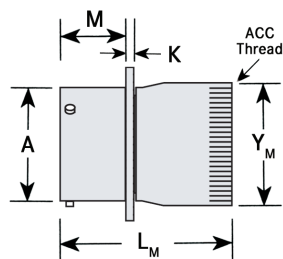
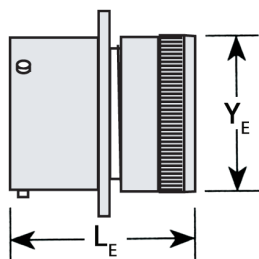
EPIC® EPT Cable Coupler Receptacles

With Central Fixing; Shell Style 01

Class E

Class M

Class J/S



Mates with style 06 connectors.

Units	Dimensions											
	A	K	L _M max.*	L _E max.*	L _J /L _S max.*	M	R	S	T	Y _E max.	Y _J /Y _S max.	ACC Thread
Shell Size: 10												
in	0.588	0.062	1.624	1.281	2.608	0.431	0.719	0.954	0.120	0.734	0.894	M16
mm	14.94	1.57	41.30	32.54	66.20	10.95	18.26	24.23	3.05	18.64	22.70	M16
Shell Size: 12												
in	0.748	0.062	1.624	1.281	2.709	0.431	0.812	1.047	0.120	0.858	1.075	M20
mm	19.00	1.57	41.30	32.54	68.80	10.95	20.63	26.59	3.05	21.79	27.30	M20
Shell Size: 14												
in	0.873	0.062	1.624	1.281	2.709	0.431	0.906	1.141	0.120	0.984	10.75	M20
mm	22.17	1.57	41.30	32.54	68.80	10.95	23.01	28.98	3.05	24.99	27.30	M20

* L dimension = total connector length, including cable accessory

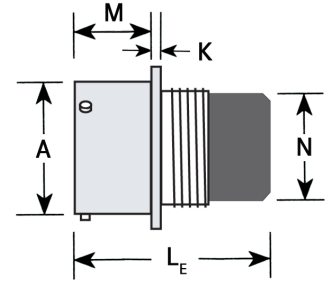
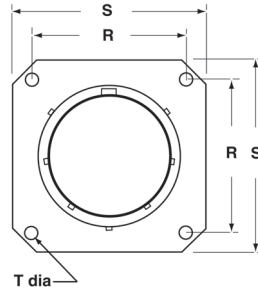
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EPIC® EPT Box Mount Receptacles

Wall Mount without Backshell; Shell Style 02

Class E



Mates with style 06 connectors.

Units	Dimensions							
	A	K	L _E max.*	M	N	R	S	T
Shell Size: 10								
in	0.588	0.062	1.281	0.431	0.558	0.719	0.954	0.120
mm	14.94	1.57	32.54	10.95	14.27	18.26	24.23	3.05
Shell Size: 12								
in	0.748	0.062	1.281	0.431	0.688	0.812	1.047	0.120
mm	19.00	1.57	32.54	10.95	17.48	20.62	26.59	3.05
Shell Size: 14								
in	0.873	0.062	1.281	0.431	0.812	0.906	1.141	0.120
mm	22.17	1.57	32.54	10.95	20.62	23.01	28.98	3.05

* L dimension = total connector length

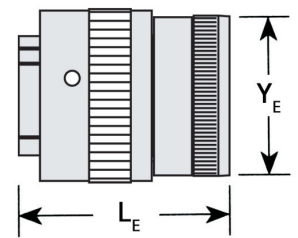
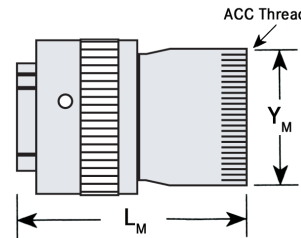
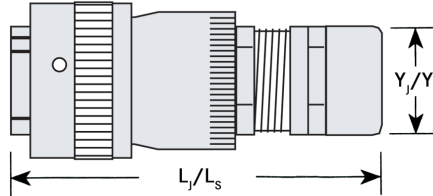
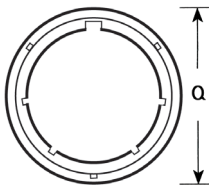
EPIC® EPT Straight Plug Connectors

Shell Style 06

Class J/S

Class M

Class E



Mates with style 00, 01 & 02 connectors.

Units	Dimensions							
	L _E max.*	L _M max.*	L _J /L _S max.*	Q	Y _M max.	Y _E max.	Y _J /Y _S max.	ACC Thread
Shell Size: 10								
in	1.513	1.856	2.840	0.926	0.717	0.734	0.894	M16
mm	38.43	47.15	72.14	23.52	18.21	18.64	22.70	M16
Shell Size: 12								
in	1.513	1.856	2.941	1.043	0.834	0.858	1.075	M20
mm	38.43	47.15	74.70	26.49	21.18	21.79	27.30	M20
Shell Size: 14								
in	1.513	1.856	2.941	1.183	0.970	0.984	1.075	M20
mm	38.43	47.15	74.70	30.05	24.61	24.99	27.30	M20

* L dimension = total connector length, including cable accessory

EPIC® EPT Series Tools

Crimp Tool



Contact Size	Part Number
20, 16	61U05397

Turret Head



Contact Size	Part Number
20, 16	61U05398

Crimp Gauge
Go/No-Go

Contact Size	Part Number
20, 16	61U05399

Insertion Tool



Contact Size	Part Number
20	61U05406
16	61U05407

Removal Tool



Contact Size	Part Number
20	61U05408
16	61U05409

SKINDICHT® Reducers, Enlargers & Adapters

For Use with Class M Connectors

Reducers



Enlargers

Metric → NPT
AdapterMetric → PG
Adapter AMetric → PG
Adapter B

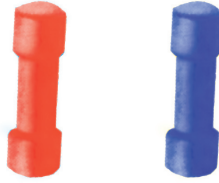
Shell Size	Reducers		Enlargers		Metric → NPT		Metric → PG A		Metric → PG B	
	Size Difference	Part Number	Size Difference	Part Number	Size Difference	Part Number	Size Difference	Part Number	Size Difference	Part Number
M16 Adapters										
10	M16 → M12	52104310	M16 → M20	52104452	M16 → ½"	54020100	M16 → PG 7	52104200	M16 → PG 29	52104340
M20 Adapters										
12, 14	M20 → M16	52104312	M20 → M25	52104454	M20 → ½"	54020110	M20 → PG 9	52104210	M20 → PG 11	52104360

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EPIC® EPT Series Accessories

Grommet Hole Seal Plugs



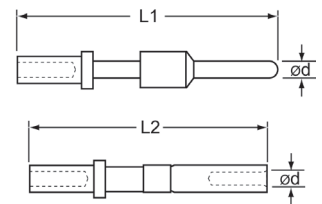
Contact Size	Color	Part Number
20	Red	61U05416
16	Blue	61U05417

Panel Gaskets



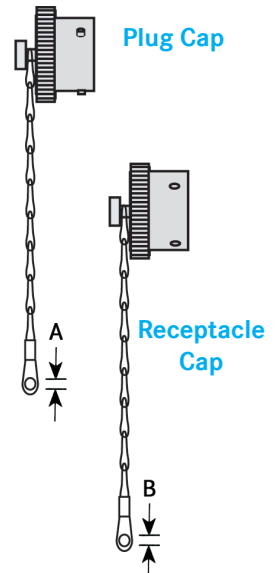
Shell Size	Part Number
10	61U05410
12	61U05411
14	61U05412

Replacement Contacts



Contact Size		L1		L2		ød		Part Number		Strip Length	
mm²	AWG	(inches)	(mm)	(inches)	(mm)	(inches)	(mm)	Pin	Socket	(inches)	(mm)
Size 20 Contacts											
0.23 - 0.5	24 - 20	0.915	23.2	0.854	21.7	0.040	1.0	61U05381	61U05383	0.375	9.5
Size 16 Contacts											
0.5 - 1.5	20 - 16	0.905	23.0	0.844	21.4	0.063	1.6	61U05382	61U05384	0.250	6.4

Connector Dust Caps



Shell Size	A Plug Cap Chain Hole Diameter		Part Number Plug Cap*	B Receptacle Cap Chain Hole Diameter		Part Number Receptacle Cap**
	(inches)	(mm)		(inches)	(mm)	
EPT Series						
10	0.162	4.1	61U05385	0.162	4.1	61U05391
12	0.162	4.1	61U05386	0.162	4.1	61U05392
14	0.162	4.1	61U05387	0.162	4.1	61U05393

* Protective plug caps for use with style 06 connectors.

** Protective receptacle caps for use with style 00, 01 & 02 connectors.

EPIC® EPT & ÖLFLEX® Cables

Stationary, Flexible & Continuous Flex Applications



Stationary & Flexible Applications

Power	page	Control	page
ÖLFLEX® 190/190 CY	26	ÖLFLEX® 190/190 CY	26
ÖLFLEX® TC 600/600 S	50	ÖLFLEX® TC 600	50
ÖLFLEX® TRAY II/II CY	52	ÖLFLEX® TRAY II/II CY	52
		ÖLFLEX® AUTO-I	54
		ÖLFLEX® FORTIS	55

Continuous Flex Applications

Power	page	Control	page
ÖLFLEX® FD 890/890 CY	61	ÖLFLEX® FD 890/890 CY	61
ÖLFLEX® FD 891 P	71	ÖLFLEX® FD 891 P	71
ÖLFLEX® ROBOT 900 P/900 DP	79	ÖLFLEX® FD AUTO-X	75
		ÖLFLEX® ROBOT 900 P/900 DP	79

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