

LSI SERIES

The LS1 Series Connectors are used for power transmission in motors and driving gear. This series is available in traditional screwing or a push pull version. Crimp contacts are used to guarantee the highest possible quality connection. In addition, these connectors offer outstanding electromagnetic compatibility protection through a 360° screen connection.

of contacts: 5+PE, 3+PE+4, 3+PE+5





Circular Connectors LSI Series

TECHNICAL DATA

Inserts:

Number of Contacts:

5+PE, 3+PE+4, 3+PE+5

Rated Voltage:

VDE: 250/630 V, AC

UL: 600V, AC

CSA: 600V, AC

Rated Current:

UL: 30A (2mm contacts 22A)

(1mm contacts 10A)

CSA: 30A (2mm contacts 22A)

(1mm contacts 7.5A)

Test Voltage:

2.5/6 kV, AC

Pollution Level:

2 (3 mated)

Temperature Range:

-40°C to 125°C

Contacts:

Copper alloy, silver plated/ gold plated

Protection Class:

IP 67 mated, DIN 40050

Wire Gauge:

Crimp: Power: 2mm contacts: 0.5 - 2.5mm² (AWG 20-14)
2.5 - 4.0mm² (AWG 14-12)

Signal: 1mm contacts: 0.14 - 1.0mm² (AWG 26-18)

Contact Resistance:

<3 mOhm

Mating Cycles:

500 (higher mating cycles depends on the application)

Cable Diameter:

9 - 14mm/ 12.5 - 17mm

Material:

Housing:

Die cast zinc, nickel plated

Insulation Body:

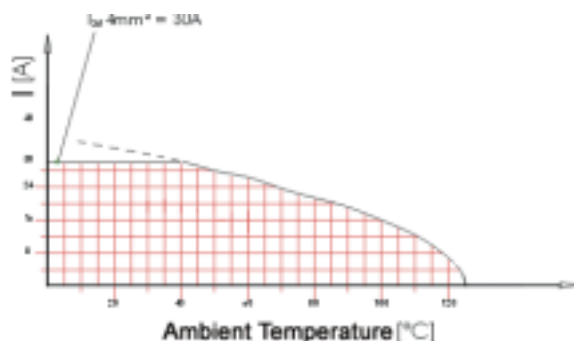
PBT according to UL 94 V-O

Gaskets:

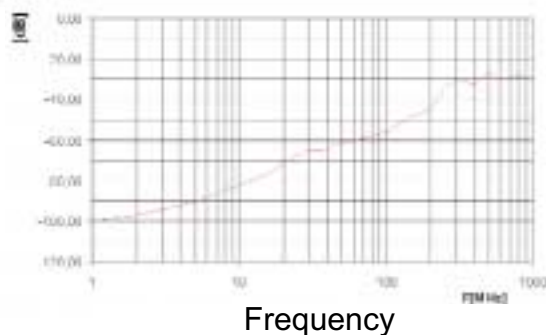
Viton/ H-NBR

Contacts:

Copper alloy, gold plated



Shield
Absorption



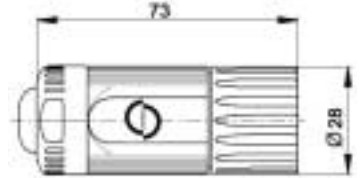
www.contactelectronics.com
800-221-1451

Circular Connectors LSI Series

5+PE FEMALE CONNECTOR



These connectors are available with or without contacts.



These female connectors mate with the male connectors on the following page.

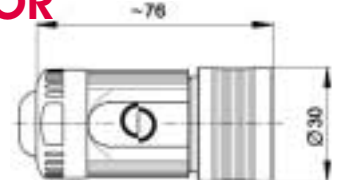
Part Number	Cable Diameter	Contacts	Standard Pack
76.020000	9 - 14mm	6X2mm (0.5 - 2.5mm ²)	5
76.020010	9 - 14mm		20
76.020510	9 - 14mm	No Contacts	20
76.020710	12.5 - 17mm	No Contacts	20
76.020200	12.5 - 17mm	6x2mm (0.5 - 2.5mm ²)	5
76.020210	12.5 - 17mm		20

All accessories except cap plug can be added.

5+PE FEMALE PUSH PULL CONNECTOR



These connectors are available with or without contacts.



These female connectors mate with the male connectors on the following page.

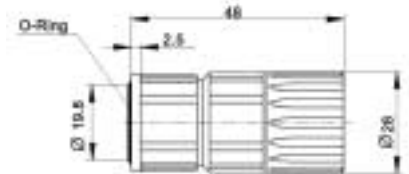
Part Number	Cable Diameter	Contacts	Standard Pack
76.025000	9 - 14mm	6X2mm (0.5 - 2.5mm ²)	5
76.025010	9 - 14mm		20
76.025510	9 - 14mm	No Contacts	20

All accessories except cap plug can be added.

5+PE FEMALE PANEL MOUNT BASE



These connectors are available with or without contacts.

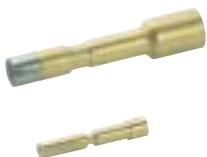


This connector mates only with the Male Coupling on the next page

Part Number	Contacts	Standard Pack
76.080000	6X2mm (0.5 - 2.5mm ²)	5
76.080010		20
76.080510	No Contacts	20

No accessories can be added.

CONTACTS FOR FEMALE CONNECTORS



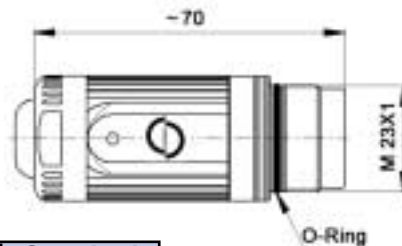
1mm Diameter		2mm Diameter		Standard Pack
Standard Pin 0.14 - 1.0 mm ²	Hyper Boloid 0.14 - 1.0 mm ²	Hyper Boloid 0.5 - 2.5 mm ²	Hyper Boloid 2.5 - 4.0 mm ²	
74.020601	74.020501	74.031501	74.032501	10
74.020600	74.020500	74.031500	74.032500	100

* Hyper Boloid contacts have a spring on the tip of the contact.



Circular Connectors LSI Series

5+PE MALE COUPLING

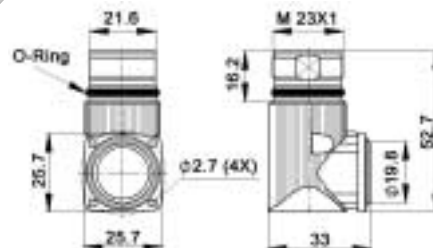
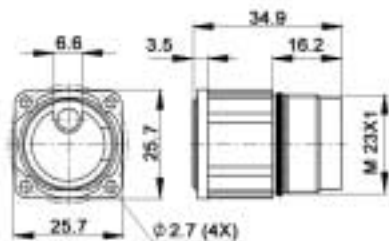


Any of the accessories can be added.

Part Number	Cable Diameter	Contacts	Standard Pack
76.030000	9 - 14mm	6X2mm (0.5 - 2.5mm ²)	5
76.030010			20
76.030510	12.5 - 17mm	No Contacts	20
76.030710			20
76.030200	12.5 - 17mm	6x2mm (0.5 - 2.5mm ²)	5
76.030210			20

These connectors are available with or without contacts.

5+PE MALE PANEL MOUNT BASES

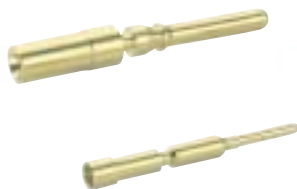


These connectors are sold with or without contacts.

Panel Mount Part Number	Angled Part Number	Contacts	Standard Pack
76.000000	76.010000	6X2mm (0.5 - 2.5mm ²)	5
76.000010	76.010010		20
76.000510	76.010510	No Contacts	20

The cap plug is the only accessory which can be added.

CONTACTS FOR MALE CONNECTORS



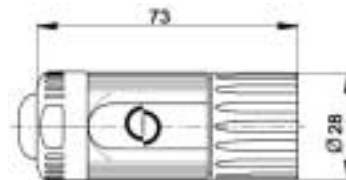
Coupling Contacts	Panel Mount Contacts	Diameter	Wire Gauge	Standard Pack
74.030101	74.030001	1mm	0.14 - 1.0 mm ²	10
74.030100	74.030000			100
74.031101	74.031001	2mm	0.5 - 2.5 mm ²	10
74.031100	74.031000			100
74.032001	74.032101	2mm	2.5 - 4.0 mm ²	10
74.032000	74.032100			100

Circular Connectors LSI Series

3+PE+4 FEMALE CONNECTOR



These connectors are available with or without contacts.



These female connectors mate with the male connectors on the following page.

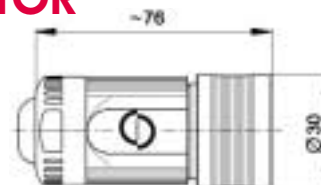
Part Number	Cable Diameter	Contacts	Standard Pack
76.021000	9 - 14mm	Power: 4X2 mm (0.5 -2.5mm ²)	5
76.021010	9 - 14mm	Signal: 4X1mm (0.14-1.0mm ²)	20
76.021510	9 - 14mm	No Contacts	20
76.021710	12.5 - 17mm	No Contacts	20
76.021200	12.5 - 17mm	Power: 4X2 mm (0.5 -2.5mm ²)	5
76.021210	12.5 - 17mm	Signal: 4X1mm (0.14-1.0mm ²)	20

All accessories except cap plug can be added.

3+PE+4 FEMALE PUSH PULL CONNECTOR



These connectors are available with or without contacts.



These female connectors mate with the male connectors on the following page.

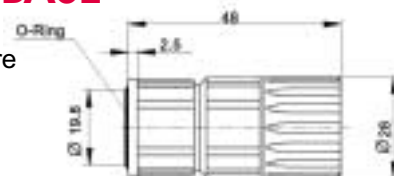
Part Number	Cable Diameter	Contacts	Standard Pack
76.026000	9 - 14mm	Power: 4X2 mm (0.5 -2.5mm ²)	5
76.026010	9 - 14mm	Signal: 4X1mm (0.14-1.0mm ²)	20
76.026510	9 - 14mm	No Contacts	20

All accessories except cap plug can be added.

3+PE+4 FEMALE PANEL MOUNT BASE



These connectors are available with or without contacts.



This connector mates only with the Male Coupling on the next page

Part Number	Contacts	Standard Pack
76.081000	Power: 4X2 mm (0.5 -2.5mm ²)	5
76.081010	Signal: 4X1mm (0.14-1.0mm ²)	20
76.081510	No Contacts	20

No accessories can be added.

CONTACTS FOR FEMALE CONNECTORS



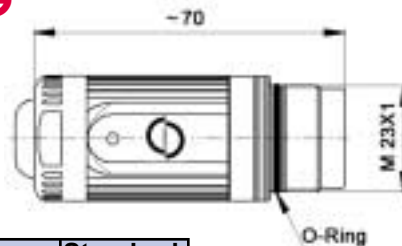
1mm Diameter		2mm Diameter		Standard Pack
Standard Pin 0.14 - 1.0 mm ²	Hyper Boloid 0.14 - 1.0 mm ²	Hyper Boloid 0.5 - 2.5 mm ²	Hyper Boloid 2.5 - 4.0 mm ²	
74.020601	74.020501	74.031501	74.032501	10
74.020600	74.020500	74.031500	74.032500	100

* Hyper Boloid contacts have a spring on the tip of the contact.



Circular Connectors LSI Series

3+PE+4 MALE COUPLING

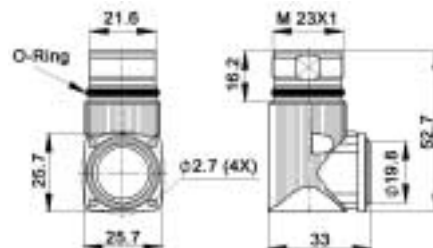
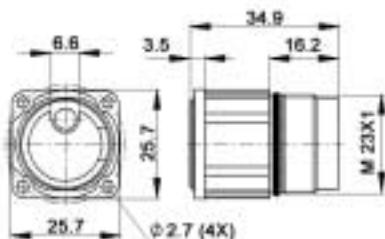


Any of the accessories can be added.

Part Number	Cable Diameter	Contacts	Standard Pack
76.031000	9 - 14mm	Power: 4X2 mm (0.5 -2.5mm ²)	5
76.031010	9 - 14mm	Signal: 4X1mm (0.14-1.0mm ²)	20
76.031510	9 - 14mm	No Contacts	20
76.031710	12.5 - 17mm	No Contacts	20
76.031200	12.5 - 17mm	Power: 4X2 mm (0.5 -2.5mm ²)	5
76.031210	12.5 - 17mm	Signal: 4X1mm (0.14-1.0mm ²)	20

These connectors are available with or without contacts.

3+PE+4 MALE PANEL MOUNT BASES

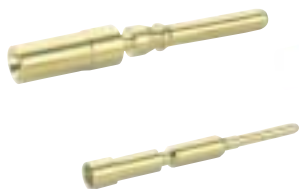


These connectors are sold with or without contacts.

Panel Mount Base	Angled Panel Mount	Contacts	Standard Pack
76.001000	76.011000	Power: 4X2 mm (0.5 -2.5mm ²)	5
76.001010	76.011010	Signal: 4X1mm (0.14-1.0mm ²)	20
76.001510	76.011510	No Contacts	20

The cap plug is the only accessory which can be added.

CONTACTS FOR MALE CONNECTORS



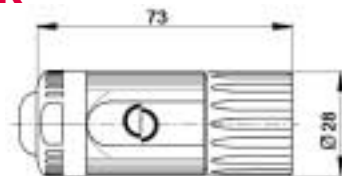
Coupling Contacts	Panel Mount Contacts	Diameter	Wire Gauge	Standard Pack
74.030101	74.030001	1mm	0.14 - 1.0 mm ²	10
74.030100	74.030000	1mm	0.14 - 1.0 mm ²	100
74.031101	74.031001	2mm	0.5 - 2.5 mm ²	10
74.031100	74.031000	2mm	0.5 - 2.5 mm ²	100
74.032001	74.032101	2mm	2.5 - 4.0 mm ²	10
74.032000	74.032100	2mm	2.5 - 4.0 mm ²	100

Circular Connectors LSI Series

3+PE+5 RECEPTACLE CONNECTOR



These connectors are available with or without contacts.



These female connectors mate with the male connectors on the following page.

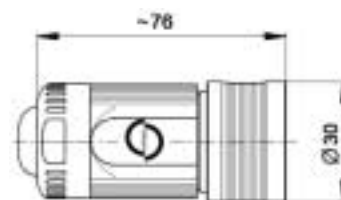
Part Number	Cable Diameter	Contacts	Standard Pack
76.022000	9 - 14mm	Power: 4X2 mm (0.5 -2.5mm ²)	5
76.022010	9 - 14mm	Signal: 5X1mm (0.14-1.0mm ²)	20
76.022510	9 - 14mm	No Contacts	20
76.022710	12.5 - 17mm	No Contacts	20
76.022200	12.5 - 17mm	Power: 4X2 mm (0.5 -2.5mm ²)	5
76.022210	12.5 - 17mm	Signal: 5X1mm (0.14-1.0mm ²)	20

All accessories except cap plug can be added.

3+PE+5 RECEPTACLE PUSH PULL CONNECTOR



These connectors are available with or without contacts.



These female connectors mate with the male connectors on the following page.

Part Number	Cable Diameter	Contacts	Standard Pack
76.027000	9 - 14mm	Power: 4X2 mm (0.5 -2.5mm ²)	5
76.027010	9 - 14mm	Signal: 5X1mm (0.14-1.0mm ²)	20
76.027510	9 - 14mm	No Contacts	20

All accessories except cap plug can be added.

CONTACTS FOR FEMALE CONNECTORS

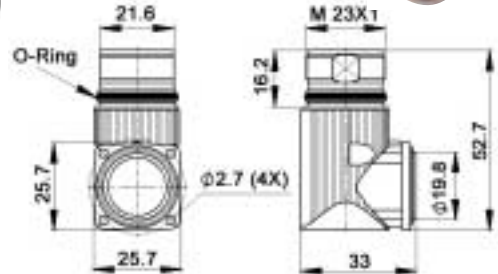
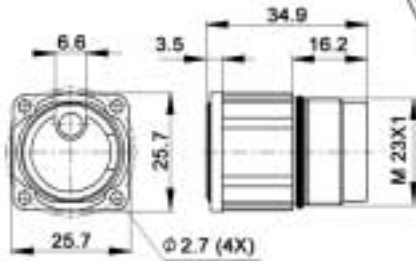


1mm Diameter		2mm Diameter		Standard Pack
Standard Pin 0.14 - 1.0 mm ²	Hyper Boloid 0.14 - 1.0 mm ²	Hyper Boloid 0.5 - 2.5 mm ²	Hyper Boloid 2.5 - 4.0 mm ²	
74.020601	74.020501	74.031501	74.032501	10
74.020600	74.020500	74.031500	74.032500	100

* Hyper Boloid contacts have a spring on the tip of the contact.

Circular Connectors LS1 Series

3+PE+5 MALE PANEL MOUNT BASES

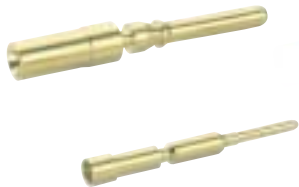


These connectors are sold with or without contacts.

Panel Mount Base	Angled Panel Mount	Contacts	Standard Pack
76.002000	76.012000	Power: 4X2 mm (0.5 -2.5mm ²)	5
76.002010	76.012010	Signal: 5X1mm (0.14-1.0mm ²)	20
76.002510	76.012510	No Contacts	20

The cap plug is the only accessory which can be added.

CONTACTS FOR MALE CONNECTORS



Coupling Contacts	Panel Mount Contacts	Diameter	Wire Gauge	Standard Pack
74.030101	74.030001	1mm	0.14 - 1.0 mm ²	10
74.030100	74.030000	1mm	0.14 - 1.0 mm ²	100
74.031101	74.031001	2mm	0.5 - 2.5 mm ²	10
74.031100	74.031000	2mm	0.5 - 2.5 mm ²	100
74.032001	74.032101	2mm	2.5 - 4.0 mm ²	10
74.032000	74.032100	2mm	2.5 - 4.0 mm ²	100

LS1 ACCESSORIES

The Male Couplings accept all accessories

Cable Clamp Ring
Dia. 9-14 mm: 75.006910
Dia. 12.5 - 17 mm: 75.007210

PG 16 Adapter
75.006410



Metal Flange with seal
75.006310



Shield Ring
75.002110



Cap Plug
75.006010

Clamp Ring Metal
75.006610

Cap Plugs are only used on male connectors.

***Standard Packs of 20**

All accessories except the cap plug are used on the female connectors except the panel mount base. The female panel mount base can not use any of these accessories.

www.contactelectronics.com
800-221-1451

Circular Connectors LS1 Series

LS1 CIRCULAR TOOLS

Assembly Key
75.005300

Insertion Tool
75.005700

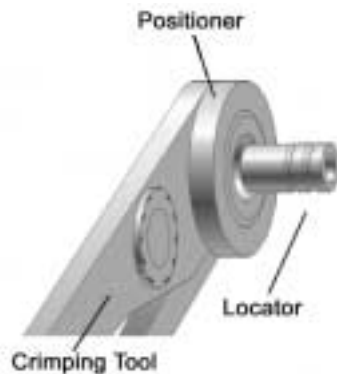
Removal Tool

1mm contacts: 75.007000

2mm contacts: 75.007100

**Hook
Spanner**

**Fastening Tool for
Coupling Ring**
75.007600



Part Number	Description	Standard Pack
75.008000	Small Crimping Tool: 0.06 - 1.0 mm ²	1
75.008100	Large Crimping Tool: 0.34 - 4.0 mm ²	1
75.008600	Locator for large crimping tool: 1mm contacts	1
75.008700	Locator for large crimping tool: 2mm contacts	1
75.008800	Locator for large crimping tool: 1mm /2mm contacts	1
75.008400	Spare positioner for small crimping tool	1
75.008500	Spare positioner for large crimping tool	1

Tool Case: 75.001000

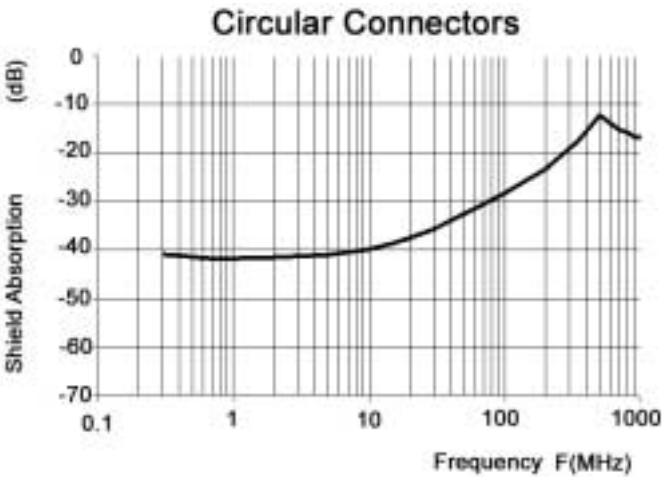
Includes:

- 2 Insertion tools
- 2 Assembly Keys
- 1 Hook spanner
- 1 Removal tool for insulation body
- 1 Removal tool for 1mm contacts
- 1 Removal tool for 2mm contacts



Circular Connectors LSI Series

EMC PROTECTION FOR CIRCULAR CONNECTORS



PG	Part #	Metric	Part #
7	75.0000	12	75.0030
9	75.0001	16	75.0031
11	75.0002	20	75.0032
13.5	75.0003	25	75.0033
16	75.0004	32	75.0034

NOTES