

EPIC® Circular Connectors

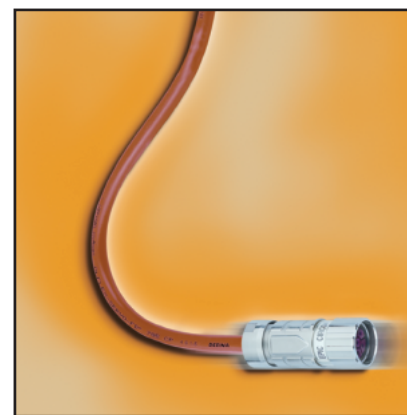
CIRCON LS1 Series



The EPIC® 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 insure quick and easy assembly, high reliability, and long, uninterrupted service life in tough industrial environments.

Key features include:

- 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
- Identification marking field and optional color marking clips can be used to provide positive identification and visual differentiation in multiple connector installations.



Equipment Description

EPIC® LS1 Connectors are available in five housing arrangements 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 and cable clamp and seal. The figure to the right shows the general construction of these connectors.

These connectors are offered with a 5+PE contact configuration for power distribution (5 contacts plus ground rated at 630 volts and 22 amps), and a 3+PE+4 contact configuration for mixed power and signal requirements for servo motor with brake and feedback applications (3 contacts plus ground rated 630 volts and 22 amps and 4 contacts rated 250 volts and 7 amps). 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

# of Contacts:	5+PE, 3+PE+4
Rated Voltage:	VDE: 630V (2mm contacts) 250V (1mm contacts) UL: 600V
Rated Current:	22 amps (2mm contacts) 7 amps (1mm contacts)
Impulse Voltage:	6kV (2mm contacts) 4kV (1mm contacts)
Contact Resistance:	<5m Ohms
Mating Cycles:	500
Temperature Range:	-25°C to +125°C
Protection Class:	IP67/68 (10h/1m)
Wire Gauge (Crimp):	<u>2 mm contacts:</u> 0.5 to 2.5 mm ² (20-14 AWG) <u>1 mm contacts:</u> 0.14 to 1.0 mm ² (24-18 AWG)
Cable Diameter:	7.5 to 15.5 mm
Materials:	Housing: Nickel Plated Zinc (Die Cast) Insulation Body: PA, PBT, UL94 V-0 Contacts: Gold plated copper alloy Gaskets & Seals: FPM
Standards:	DIN EN 61984
Approvals:	

