

ÖLFLEX[®]
Power And Control Cables

SKINTOP[®]
Cable Glands

SILVYN[®]
Conduit

ETHERLINE[®]
Industrial Ethernet

EPIC[®]
Connectors

UNITRONIC[®]
Data Cables

FLEXIMARK[®]
Marking Systems

HITRONIC[®]
Fiber Optic Cables



EPIC[®]
CONNECTORS
TO CONNECT
AND PROTECT



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Alamo Industrial, C.P. 44490
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800-024-5277
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COMPLEX APPLICATIONS DEMAND SIMPLE SOLUTIONS.



PRECISION ENGINEERED CONNECTORS

The Lapp Group North American headquarters located in Florham Park, NJ houses Lapp USA, Lapp Systems USA, Lapp Cable Works, and our last expansion, Lapp Group's Center for Competence and Innovation. In addition, this facility houses one of two US product warehouses for connectors, cables, standard cable assemblies, and accessories. Our EPIC® Brand connectors are designed to exacting specifications and manufactured to strict quality standards.

2600 PEOPLE, 21 LANGUAGES 1 WORLDWIDE FAMILY

In the late 1950's, Oskar Lapp turned his visionary dream into reality with the invention of the first industrially manufactured control cable, ÖLFLEX®. This was the beginning of his family run and oriented company. Lapp Group produces innovative cables, connectors, accessories, and engineered solutions as a worldwide market leader. Oskar Lapp's vision continues today through his wife, Ursula Ida, and his sons, Andreas and Siegbert Lapp.

Within 50 years, the Lapp Group has grown to 2,600 employees operating around the globe developing, manufacturing and selling more than 40,000 products. With 17 manufacturing sites, 39 company-owned sales operations, more than 100 foreign representations and worldwide headquarters in Stuttgart, Germany, the Lapp Group people are everywhere you need us to be.



AN EPIC® PRODUCT FROM AN EPIC COMPANY.

EPIC® = ENVIRONMENTALLY PROTECTED INDUSTRIAL CONNECTORS



High quality and durability are synonymous with the Lapp family of products, and the EPIC® line of connectors is no exception. Whether the application is power, control, or signal/data, EPIC® connectors offer performance you can count on, providing secure and reliable electrical connections for a variety of Industrial OEM Equipment and Factory Floor Automation Systems. They excel in applications where flexibility, reliability, and durability are key.

WE'VE GOT THREE WORDS FOR YOU. FLEXIBLE. RELIABLE. DURABLE.



FLEXIBILITY.

EPIC® connectors reflect a wide variety of design types and configurations to satisfy most any application requirement for power, control, or data.



RELIABILITY.

These connectors utilize silver or gold plated contacts, all housed in environmentally sealed enclosures. This protects the electrical connections from dirt, water, and other fluids typically found in industrial environments.



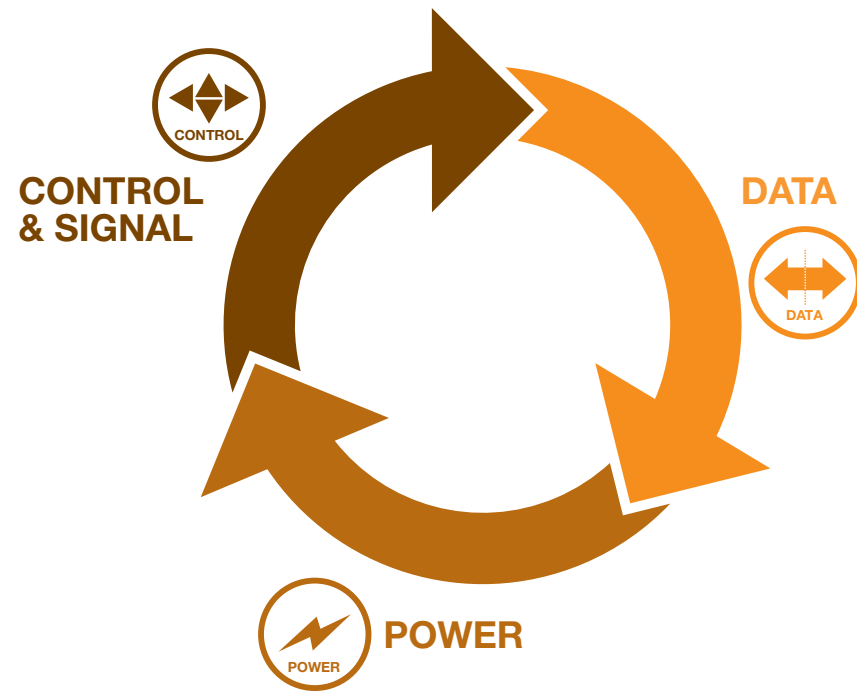
DURABILITY.

The use of metal and high-impact plastic construction insures long, trouble-free service wherever a physically rugged connection is needed.

EPIC® CONNECTOR APPLICATIONS



- Installation time savings; reduced maintenance downtime
- Secure electrical connections in harsh industrial environments



| | CONNECTOR TYPE | APPLICATION | | | TECHNICAL DATA NUMBER OF CONTACTS | RATED VOLTAGE | RATED CURRENT | TERMINATION TYPE | WIRE RANGE (AWG) | HOUSING | IP/NEMA RATING | APPROVAL/DESIGN/SPEC |
|--------------|----------------|-------------|----------------|------------|---|---------------|---------------|------------------|------------------|-------------------|-------------------|----------------------|
| | | POWER | CONTROL SIGNAL | DATA | | | | | | | | |
| RECTANGULAR | HA | X | X | | 3,4,10,16,32,48,64 (+PE) | 600V | 10A, 14A | SC | 20-14 | HA | IP65,NEMA,4,4X,12 | UL/CSA/VDE |
| | HBE | X | X | | 6,10,16,24,32,48 (+PE) | 600V | 16A | SC,CR,CC | 20-14, 20-12 | HB | IP65,NEMA,4,4X,12 | UL/CSA/VDE |
| | HBS | X | | | 6,12 (+PE) | 600V | 35A | SC | 20-10 | HB | IP65,NEMA,4,4X,12 | UL/CSA/VDE |
| | HBVE | X | | | 3,6,10 (+PE) | 600V | 16A | SC | 20-14 | HB | IP65,NEMA,4,4X,12 | UL/CSA/VDE |
| | HD | | X | X | 7,8,15,25,40,50,64,80,128 (+PE) | 600V | 10A | CR,FO | 26-14 | HA,HB | IP65,NEMA,4,4X,12 | UL/CSA/VDE |
| | HDD | X | X | | 24,42,72,108,144,216 (+PE) | 600V | 8.5A | CR | 26-14 | HB | IP65,NEMA,4,4X,12 | UL/CSA/VDE |
| | HEE | X | X | | 10,18,32,46,64,92 (+PE) | 600V | 16A | CR | 20-12 | HB | IP65,NEMA,4,4X,12 | UL/CSA/VDE |
| | HQ | X | X | | 5 (+PE) | 600V | 16A | CR | 20-14 | HA | IP65,NEMA,4,4X,12 | UL/CSA/VDE |
| | MC | X | X | X | 2 to 280, Data Bus (+PE), Pneumatic | 63-1000V | 10-82A | SC,CR,CC,FO,HO | 28-4 | HB | IP65,NEMA,4,4X,12 | UL/CSA/VDE |
| | MP | X | | | 4/0, 4/2, 4/8 (+PE) | 600V | 80/16A | SC | 16-6,20-14 | HB | IP65,NEMA,4,4X,12 | UL/CSA/VDE |
| STA | | X | | 6,14,20,40 | 48V | 10A | SC,SOL | 20-16 | HA | IP65,NEMA,4,4X,12 | UL/CSA/VDE | |
| CIRCULAR | EAB | X | | | 2,3,4,5,6,7,8,7+2,10,11,14,14+2,17,19,24,26,37 | 200,500,900V | 13,23,46A | CR | 18-16,14-12,8 | E,M,J,S | up to IP67 | MIL-C-5015 |
| | EAC | X | | | 2,3,4,5,6,7,8,7+2,10,11,14,14+2,17,19,24,26,37 | 200,500,900V | 13,23,46A | CR | 18-16,14-12,8 | E,M,J,S | up to IP67 | MIL-C-5015 |
| | EPT | X | X | | 3,5,6,7,8,8+4,10,14+1,16,18,19,21,22+1,26,41,55 | 600,1000V | 7.5,13A | CR | 24-20,20-16 | E,M,J,S | up to IP67 | MIL-C-26482 |
| | LS1 | X | | | 5+PE, 3+PE+4 | 600V | 22/7A | CR | 20-14,24-18 | LS1 | IP67/68 | cRUus,VDE |
| | M23 | X | X | | 6,7,8+1,9,12,16,17 | 150,100,50V | 14,7A | CR,SOL | 18-14,24-18 | M23 | IP67/68 | cRUus,VDE |
| PIN & SLEEVE | MultiMax | X | | | 1+N+PE, 2+PE, 2+N+PE, 3+PE, 3+N+PE | 125-600V | 16-32A | SC | 12,8 | MULTIMAX | IP44 | cULus |
| | CEE | X | | | 1+N+PE, 2+PE, 2+N+PE, 3+PE, 3+N+PE | 125-500V | 16-125A | SC | 12,8,6 | CEE | IP67 | cULus |
| | ULYSSE | X | | | 1+N+PE, 2+PE, 2+N+PE, 3+PE, 3+N+PE | 125-500V | 16-63A | SC | 12,8,6 | ULYSSE | IP66/67 | cULus |
| | ALUPRES | X | | | 1+N+PE, 2+PE, 2+N+PE, 3+PE, 3+N+PE | 125-500V | 16-63A | SC | 12,8,6 | ALUPRES | IP65,IP55 | cULus |

Termination Type: SC = Screw, CR = Crimp, CC = Cage Clamp, FO = Fiber Optic, SOL = Solder, HO = Hose

EPIC[®] RECTANGULAR



EPIC[®] RECTANGULAR



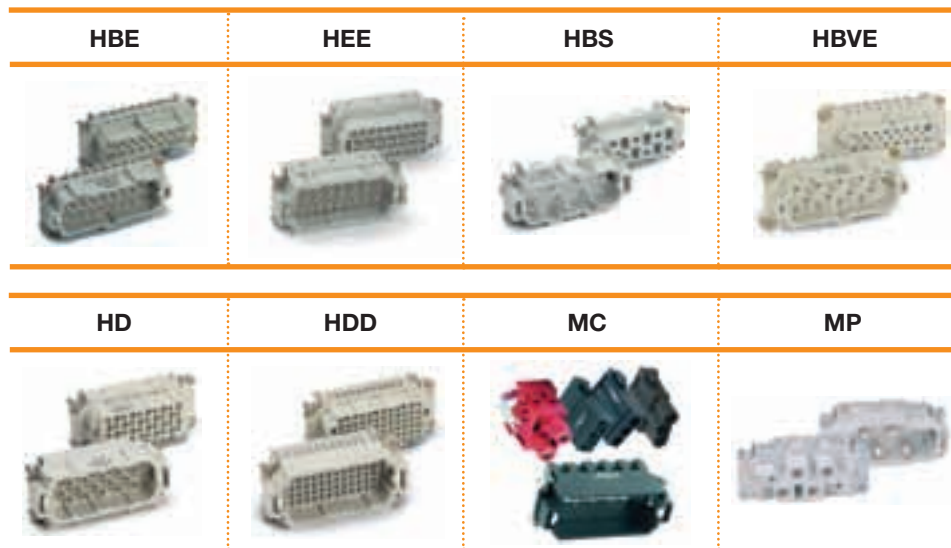
EPIC[®] rectangular connectors offer 11 different contact insert types and 2 housing series sizes to handle application requirements up to 1000 volts, 82 amps, and from 3 to 280 contacts. Rugged aluminum alloy enclosures provide environmental protection ratings of IP65, NEMA 4 and 12. All rectangular connector products are UL (E75770) and CSA (LR53004-1) listed.



KEY PRODUCT/SERVICE FEATURES

- Intermateable and compatible with most equivalent DIN type rectangular connectors
- Custom housing modifications, harness assemblies, and a comprehensive offering of cable and accessory products for unsurpassed application flexibility and support
- Web-based product selection and cross reference tools provide 24/7/365 support
- Large North American based inventory for fast delivery of our most popular items

INSERTS FOR HB HOUSINGS



EPIC[®] HB SIZE HOUSINGS & THEIR INSERTS

| HOUSINGS | PLUGS AND RECEPTACLES | | | | | | | |
|----------|-----------------------|-------|-------|--------|-------|--------|--------|----------------------------|
| | HBE | HEE | HBS | HBVE | HD | HDD | MC | MIXED PWR |
| HB6 | HBE6 | HEE10 | | | | HDD24 | 2 Mod | |
| HB10 | HBE10 | HEE18 | | HBVE3 | | HDD42 | 3 Mod | |
| HB16 | HBE16 | HEE32 | HBS6 | HBVE6 | HD40 | HDD72 | 5 Mod | 4 Pwr/0 Sgl 4 Pwr/2 Sgl |
| HB24 | HBE24 | HEE46 | | HBVE10 | HD64 | HDD108 | 7 Mod | 4 Pwr/8 Sgl |
| HB32 | HBE32 | HEE64 | HBS12 | | HD80 | HDD144 | 10 Mod | |
| HB48 | HBE48 | HEE92 | | | HD128 | HDD216 | 14 Mod | |

HOUSINGS

PG



NPT

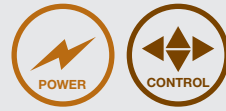
METRIC



EPIC[®] HA SIZE HOUSINGS & THEIR INSERTS

| HOUSINGS | PLUGS & RECEPTACLES | | | | INSERTS FOR HA HOUSINGS |
|----------|---------------------|-----|-------|-------|-------------------------|
| | HA | HQ | STA | HD | |
| HA3/4 | HA3/4 | HQ5 | STA6 | HD7/8 | |
| HA10 | HA10 | | STA14 | HD15 | |
| HA16 | HA16 | | STA20 | HD25 | |
| HA32 | HA32 | | STA40 | HD50 | |
| HA48 | HA48 | | | | |
| HA64 | HA64 | | | | |

EPIC[®] DIN CIRCULAR



EPIC[®] DIN CIRCULAR



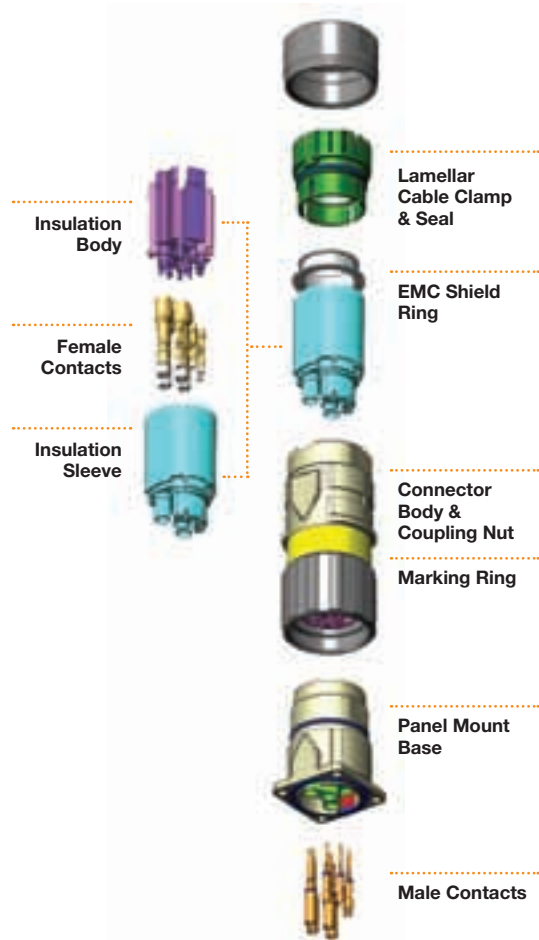
EPIC[®] LS1

EPIC[®] LS1 circular connectors handle power and mixed power/control application requirements up to 600 volts and 22 amps. Rugged nickel plated die-cast zinc housings provide an environmental protection rating of IP67/IP68. LS1 connectors are offered in seven housing styles and two contact configurations: 5+PE for power distribution and 3+PE+4 for a combination of power and control signal requirements such as servo motor with brake and feedback applications. These connectors include integral strain relief and cable shield termination.



KEY PRODUCT/SERVICE FEATURES

- Positive vibration protection for use with motor drives and moving assemblies
- Available as part of pretested custom harness assemblies
- SKINTOP[®] based backshell designs provide superior environmental seal and strain relief with jacketed cable, and a quick, easy method of shield termination for 360 degree EMC protection when used with shielded, jacketed cable



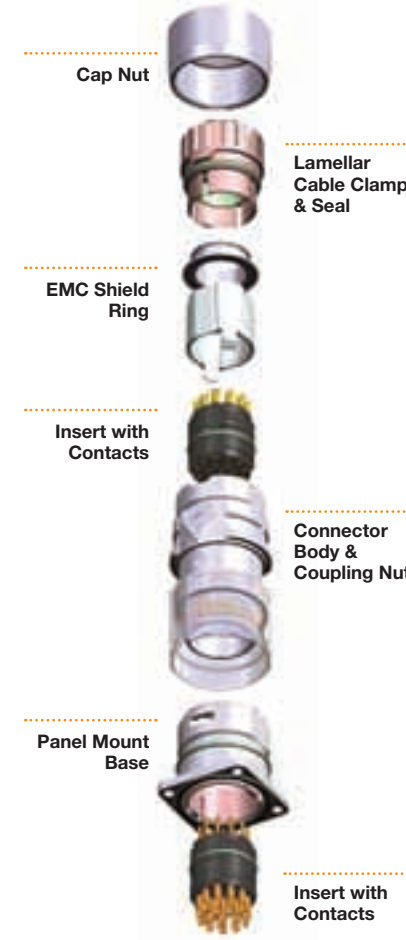
EPIC[®] M23

EPIC[®] M23 circular connectors handle control signal/feedback and low power application requirements up to 150 volts and 14 amps. Rugged nickel plated die-cast zinc housings provide an environmental protection rating of IP67/IP68. M23 connectors are offered in ten housing styles and seven contact configurations from 6 to 17 contacts. They are ideal for servo encoder applications and include integral strain relief and cable shield termination.



KEY PRODUCT/SERVICE FEATURES

- Positive vibration protection for use with motor drives and moving assemblies
- Available as part of pretested custom harness assemblies
- SKINTOP[®] based backshell designs provide superior environmental seal and strain relief with jacketed cable, and a quick, easy method of shield termination for 360 degree EMC protection when used with shielded, jacketed cable



EPIC® PIN & SLEEVE



EPIC® CEE and MULTIMAX series pin & sleeve connectors handle single phase (2+PE) and three phase (3+PE and 3+N+PE) power application requirements up to 600 volts and 125 amps.

EPIC® ULYSSE and ALUPRES interlocked switch outlets satisfy indoor and outdoor power distribution needs and allow direct switching of motor and other highly inductive electrical loads up to 500 volts and 63 amps.



CONNECTORS

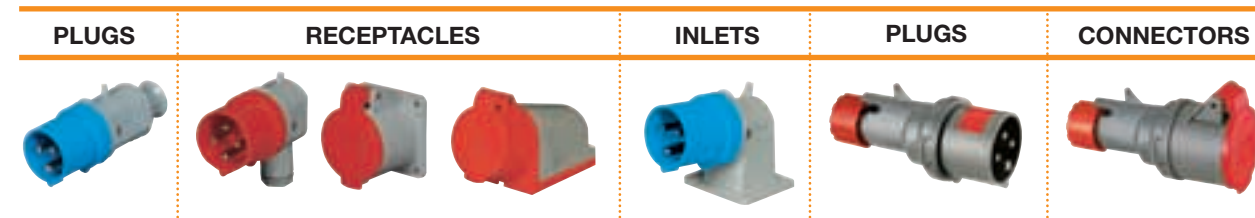
KEY PRODUCT/SERVICE FEATURES

- Intermateable and compatible with all IEC60309 type connectors
- IP44 or IP 67
- North American Version: cULus Listed, UL 1682 & 1686- File E22377
- International Version: IEC60309-1, -2
- Available as part of pretested custom harness assemblies
- Web-based product selection and cross reference tools provide 24/7/365 support

CEE IP67



CEE IP44



SWITCH OUTLETS

KEY PRODUCT/SERVICE FEATURES

- Compatible with all IEC60309 type plugs
- ULYSSE: Thermoset Plastic: IP66 and IP 67
- ALUPRES: Powder Painted Aluminum Cast: IP67 or IP 55 (60/63A)
- North American Version: cULus Listed, UL 508- File E330239
- International Version
- Mechanical interlock secures the mating plug when power is turned on: eliminates arc-flash hazard



EPIC® MIL-TYPE CIRCULAR



EPIC® EAB, EAC, and EPT MIL-type circular connectors handle power and control application requirements up to 1000 volts and 46 amps. Rugged nickel plated aluminum housings provide an environmental protection rating of IP67. They are modern, industrialized versions

of MIL-DTL-5015 and MIL-DTL-26482 military designs and provide full intermateability with their military counterparts, while offering many preferred features found in European DIN type connectors.

[RoHS](#) ✓

EPIC® EAB, EAC

KEY PRODUCT/SERVICE FEATURES

- Available in five housing styles, eight housing sizes, and twenty contact configurations
- Intermateable with MIL-DTL-5015 and VG95234 connectors – same shell dimensions, contact layouts, and performance characteristics
- Available as part of pretested custom overmolded harness assemblies
- SKINTOP® MS backshell designs provide superior environmental seal and strain relief with jacketed cable, and a quick, easy method of shield termination for 360 degree EMC protection when used with shielded, jacketed cable



EPIC® EPT

KEY PRODUCT/SERVICE FEATURES

- Available in four housing styles, six housing sizes, and sixteen contact configurations
- Intermateable with MIL-DTL-26482 connectors – same shell dimensions, contact layouts, and performance characteristics
- Available as part of pretested custom overmolded harness assemblies
- SKINTOP® MS backshell designs provide superior environmental seal and strain relief with jacketed cable, and a quick, easy method of shield termination for 360 degree EMC protection when used with shielded, jacketed cable

