

# Amphenol Star-line EX® Series Connectors



## HARD ANODIC COATING ALLOWS FOR HEAT RESISTANCE UP TO 750°F (399°C)

Amphenol Explosion-proof Connectors ATEX certified for Zone 1-Ilc hazardous environment, Cenelec IP68-8 rated, and IECex certified (IECex 60079). With a broad range of reversible inserts; solder, crimp and pressure terminals; and flexible cable options, Star-Line EX will meet application demands in petrochemical refineries, land and offshore drilling systems. RoHS compliant products available.

## FEATURES

### ATEX CERTIFIED

For Zone 1-Ilc hazardous environment. For certificate, contact factory.

### IECEX CERTIFIED

For certificate, contact factory.

### CENELEC IP68 RATED

Cable connectors listed under Ex d Ilc T6. Panel mount receptacles listed under Ex de Ilc T6.

### HARD ANODIC COATING

All machined aluminum parts finished with a hard, scratch-resistant coating per MIL-A-8625, Type III. Dielectric strength 1800 volts. Heat resistance of 750°F.

### REVERSIBLE INSERTS

A full range of contact inserts for power, signal and mixed applications are available. All are interchangeable and reversible to suit specific needs.

### EASILY ACCESSIBLE WIRE TERMINALS

Conductors are readily terminated to contacts. Cable housings are slipped over conductors or leads after terminating. Cumbersome handling and seating of inserts with conductors attached is eliminated.

### HIGH TENSILE STRENGTH ALUMINUM

Bar Stock Components precision machined. Points of impact designed for extra strength.

### CABLE OPTIONS

Starline EX Series can be terminated onto unarmored or armored and sheathed cables built to IEEE-45 / UL1309, IEC, BS, DIN and JIC standards. Flexible cables like SOOW-A, W, G-GC and DLO constructions can also be used with this Series.

### EX CABLE GLANDS

Wide variety of glands are available for Star-Line EX connectors.

### INSERT VARIETY

1 to 143 contacts. High amperage up to 1135 amps at 1000V / AC or DC. Contacts are high quality copper with silver plating. (Gold plating available as an option) Composite inserts for power, control and instrumentation service available.

### RADSOK® HIGH AMPERAGE CONTACTS

Special arrangements are available with RADSOK high amperage contacts. Standard Star-line EX inserts are not interchangeable with new RADSOK contact insert arrangements.

### ROHS COMPLIANT PRODUCT AVAILABLE

TECHNICAL SPECIFICATIONS

**MATERIALS AND FINISHES**

Shell	Aluminium Alloy or Stainless Steel
Shell Plating	Hard Anodic
Contacts	Copper Alloy
Contact Platings	Silver or Gold Plated
Seals	Buna Rubber

**ELECTRICAL DATA**

Wire Range Sizes	18 to 777MCM
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Current Rating

CONTACT SIZE	MAX. CURRENT RATING PER CONTACT AMPS
18	3
16	16
12	30
10	40
8	50
4	90
1/0	155
4/0	225
313MCM	325
350MCM	325
373MCM	Contact us
444MCM	Contact us
500MCM	750
535MCM	Contact us
646MCM	940
777MCM	1,135

**MECHANICAL**

Operating Temperature -67°F to +257°F (-55°C to +125°C)

Insulation Strip Length

CONTACT SIZE	STRIP LENGTH - SOLDER		STRIP LENGTH - CRIMP	
	INCHES	MM	INCHES	MM
18	0.284	7.2	0.453	11.5
16	0.284	7.2	0.575	14.6
12	0.343	8.7	0.611	15.5
10	0.469	11.9	0.674	17.1
8	0.595	15.1	0.827	21.0
4	0.658	16.7	0.906	23.0
1/0	0.721	18.3	1.221	31.0
4/0	0.721	18.3	1.221	31.0
313MCM	0.843	21.4	1.319	33.5
350MCM	0.843	21.4	1.319	33.5
373MCM	0.843	21.4	1.319	33.5
444MCM	1.969	50.0	1.969	50.0
500MCM	1.969	50.0	1.969	50.0
535MCM	1.969	50.0	1.969	50.0
646-777MCM	1.969	50.0	1.969	50.0

Mating Life 500 cycles

Salt Spray 300 days

Vibration 10g

Shock 60g

Sealed IP68

Contact Type Solder, Crimp, Power, and Signal

Number of Circuits 1 to 143

Polarization Keyway with optional insert orientation

Approvals CSA, ATEX, and IECEx