



FEATURES • ALUMINUM VICTORY GD SERIES POWER

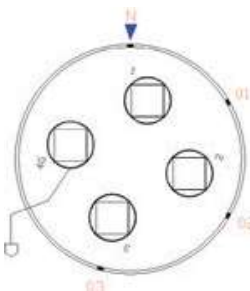


Ratings & Certifications:

- Class I, Div. 1 & 2, Groups C & D at 480VAC; 60/400 Hz, Circuit-Breaking
- Class I, Div 1 & 2, Groups B, C & D Class II, Div.1, Groups F & G at 600VAC, 60/400 Hz, Circuit-Breaking. AEx d IIC T6
- II 2 GD Ex d IIC IP 66/67 T 70°C 1000VAC, 500VDC

PRODUCT FEATURES

- **Power Inserts:** 30 to 260 amp rated for service through 600VAC
- **Circuit-Breaking:** UL and CSA Listed to make/break at full rated load, these connectors were required to pass an overload test of 50 cycles at 150% of their ampere rating in a chamber filled with a test mixture of hazardous vapors.
- **Corrosion Resistance** Designed for corrosive environments, junction boxes are sand cast, copper-free aluminum, protected by our VanGuard baked polymer finish system. Plug and receptacle shells are machined from 6061-T6 aluminum (0.15 to 0.40% copper by weight) and finished by hard anodizing to exceed corrosion resistance requirements per MIL-STD 202, Method 101, Condition D.
- **Alternate Keyed Inserts** For added safety, inserts can be keyed in alternate positions to prevent mating of differing voltages, frequencies or services.
- **Factory Sealing** Junction box, NPT and panel-mounted receptacles are pre-wired and factory sealed. No external seals are required.
- **Insert Patterns** Grounding inserts with 3, 4, 5, and 6 contacts are described as 2 Pole 3 Wire, 3 Pole 4 Wire, 4 Pole 5 Wire, and 3 Pole 4 Wire plus 2 relay length contacts. The ground pin is longer and will make first - break last, an important safety feature.
- **Reverse Service** GD connectors were the first explosionproof connectors to secure both UL and CSA listing with reverse service inserts. Their ATEX listing also supports reverse service. This feature provides electrical safety where lineside power is carried from the plug to a receptacle.
- **Color Coding** Plugs and receptacles are available with color coding variations for specific application identification. This coding could include the plug coupling nut and cover with matching colors on various receptacle components.



INSERT GDU-28-31

KEY NUMBER	KEY POSITION
N	0°
01	60°
02	120°
03	195°

PIN NUMBER 4 IS POLARIZED



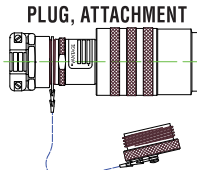
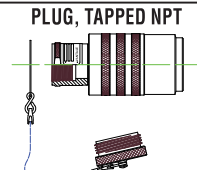
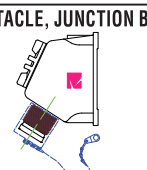
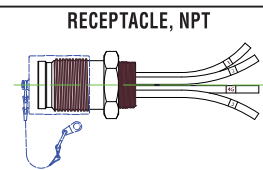
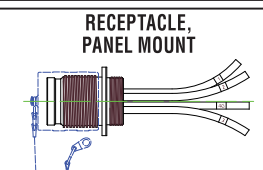
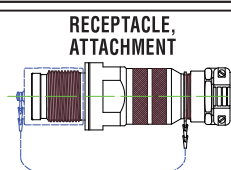
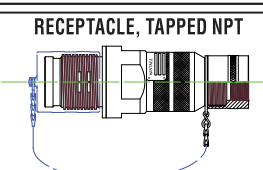
RECEPTACLE STYLES				
JUNCTION BOX	ATTACHMENT	PANEL MOUNT	NPT MOUNT	TAPPED FLEXIBLE CONDUIT

# CONNECTORS

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## GD PART NUMBERS

	AMPERES		2 POLE, 3 WIRE	3 POLE, 4 WIRE	3 POLE, 4 WIRE + 2 RELAY	4 POLE, 5 WIRE
	UL	Ex				
<b>PLUG, ATTACHMENT</b> 	30 / 32		GD-D1016-51PL-XX	GD-D1016-23PL-XX		GD-D1020-36PL-XX
	60 / 63		GD-D1020-61PL-XX	GD-D1020-40PL-XX	GD-D1020-56PL-XX	GD-D1024-29PL-XX
	100 / 125		GD-D1024-60PL-XX	GD-D1024-39PL-XX	GD-D1024-32PL-XX	GD-D1028-23PL-XX
	200 / 260		GDU-D1028-30PL-XX	GDU-D1028-31PL-XX	GDT-D1028-42PL-XX	
<b>PLUG, TAPPED NPT</b> 	30 / 32		GD-D1016-51PL-TC	GD-D1016-23PL-TC		GD-D1020-36PL-TC
	60 / 63		GD-D1020-61PL-TC	GD-D1020-40PL-TC	GD-D1020-56PL-TC	GD-D1024-29PL-TC
	100 / 125		GD-D1024-60PL-TC	GD-D1024-39PL-TC	GD-D1024-32PL-TC	GD-D1028-23PL-TC
	200 / 260		GDU-D1028-30PL-TC	GDU-D1028-31PL-TC	GDT-D1028-42PL-TC	
<b>RECEPTACLE, JUNCTION BOX</b> 	30 / 32		GD-B1716-51SL-FH	GD-B1716-23SL-FH		GD-B1720-36SL-FH
	60 / 63		GD-B1720-61SL-FH	GD-B1720-40SL-FH	GD-B1720-56SL-FH	GD-B1724-29SL-BK
	100 / 125		GD-B1724-60SL-BK	GD-B1724-39SL-BK	GD-B1724-32SL-BK	GD-B1728-23SL-BL
	200 / 260		GDU-B1728-30SL-BL	GDU-B1728-31SL-BL	GDT-B1728-42SL-BL	
<b>RECEPTACLE, NPT</b> 	30 / 32		GD-B1916-51SL-L48	GD-B1916-23SL-L48		GD-B1920-36SL-L48
	60 / 63		GD-B1920-61SL-L48	GD-B1920-40SL-L48	GD-B1920-56SL-L48	GD-B1924-29SL-L48
	100 / 125		GD-B1924-60SL-L48	GD-B1924-39SL-L48	GD-B1924-32SL-L48	GD-B1928-23SL-L48
	200 / 260		GDU-B1928-30SL-L48	GDU-B1928-31SL-L48	GDT-B1928-42SL-L48	
<b>RECEPTACLE, PANEL MOUNT</b> 	30 / 32		GD-B1716-51SL-L36	GD-B1716-23SL-L36		GD-B1720-36SL-L36
	60 / 63		GD-B1720-61SL-L36	GD-B1720-40SL-L36	GD-B1720-56SL-L36	GD-B1724-29SL-L36
	100 / 125		GD-B1724-60SL-L36	GD-B1724-39SL-L36	GD-B1724-32SL-L36	GD-B1728-23SL-L36
	200 / 260		GDU-B1728-30SL-L36	GDU-B1728-31SL-L36	GDT-B1728-42SL-L36	
<b>RECEPTACLE, ATTACHMENT</b> 	30 / 32		GD-B1516-51SL-XX	GD-B1516-23SL-XX		GD-B1520-36SL-XX
	60 / 63		GD-B1520-61SL-XX	GD-B1520-40SL-XX	GD-B1520-56SL-XX	GD-B1524-29SL-XX
	100 / 125		GD-B1524-60SL-XX	GD-B1524-39SL-XX	GD-B1524-32SL-XX	GD-B1528-23SL-XX
	200 / 260		GDU-B1528-30SL-XX	GDU-B1528-31SL-XX	GDT-B1528-42SL-XX	
<b>RECEPTACLE, TAPPED NPT</b> 	30 / 32		GD-B1516-51SL-TC	GD-B1516-23SL-TC		GD-B1520-36SL-TC
	60 / 63		GD-B1520-61SL-TC	GD-B1520-40SL-TC	GD-B1520-56SL-TC	GD-B1524-29SL-TC
	100 / 125		GD-B1524-60SL-TC	GD-B1524-39SL-TC	GD-B1524-32SL-TC	GD-B1528-23SL-TC
	200 / 260		GDU-B1528-30SL-TC	GDU-B1528-31SL-TC	GDT-B1528-42SL-TC	

Replace 'XX' with cable diameter code number from Page CN66  
 Pre-wired lead length can be specified to suit application. Consult factory  
 See pages CN71 and CN77 for Part Number Code Logic

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## XP STARLINE INSERT AND CONTACT FEATURES

### Inserts

Vantage inserts come in power (30 thru 260 AMP) and control (10 thru 100 contacts) versions. Within these power and control versions many options are available. See depictions of inserts for electrical ratings, certifications and available key positions. Inserts are designed for simplified field termination. Power inserts feature captive contacts that utilize pressure termination. Control inserts utilize crimp contacts that are rear insertable, rear removable. Consult factory for replacements.

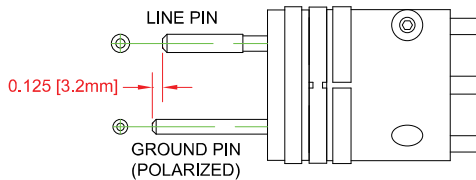
### Grounding

Power inserts feature ground contacts which provide shell grounding, polarization, and make-first, break last function. Many control inserts feature ground contacts which provide shell grounding and make-first, break last function.

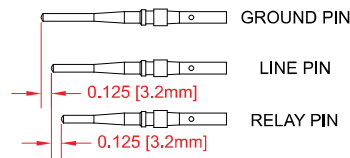
### Relay Circuits

Some inserts are available with a pair of relay contacts that are shorter than all other contacts to provide a time delay during breaking and making.

**POWER CONTACTS  
PRESSURE TERMINATION, NON-REMOVABLE**



**CONTROL CONTACTS  
CRIMP TERMINATION, REAR INSERTABLE - REAR REMOVABLE**



### Plating Options

Control contacts come standard with silver plating. Gold plating is available for added corrosion resistance. The following plating options are available.

SYMBOL	FINISH
L	Silver
K	Gold over Silver
D	Gold over Nickel

### Ferrules

Ferrules are designed to serve as a compression supporting member when an undersized wire is crimp terminated into a larger contact. Ferrules are gold plated.



PART NUMBER	CONTACT SIZE AWG (MM <sup>2</sup> ) PIN OR SOCKET		
	10 (6)	12 (4)	16 (1.5)
<b>FERRULE SIZE</b>			
VT-70065-1012K	12		
VT-70065-1014K	14		
VT-70065-1016K	16		
VT-70065-1216K		16	
VT-70065-1218K		18	
VT-70065-1220K		20	
VT-70065-1620K			20
VT-70065-1622K			22

Example: To transition From #12 contact to #20 wire, use V-70065-1220K.

### Thermocouple Contacts

AF / SF inserts with 16 AWG contacts can be ordered with thermocouple contacts.

PART NUMBER/GENDER	ISA SYMBOL	THERMOCOUPLE MATERIAL	ISA COLOR CODING			TEMPERATURE RANGE	
			(+)	(-)	JACKET	DEGREES CONTINUOUS	SHORT TIME
VT-4016-50MF / Pin	J	Iron	White	Red	Black	0-1100° C	to 1100° C
VT-4116-50MF / Socket	J						
VT-4016-50NF / Pin	J	Constantan	White	Red	Black	0-1100° C	to 1100° C
VT-4116-50NF / Socket	J						
VT-4016-50PO / Pin	K	Chromel	Yellow	Red	Yellow	0-1100° C	to 1350° C
VT-4116-50PO / Socket	K						
VT-4016-50RO / Pin	K	Alumel	Yellow	Red	Yellow	0-1100° C	to 1350° C
VT-4116-50RO / Socket	K						

Note: Iron and Alumel contacts are magnetic. Constantan and Chromel contacts are non-magnetic.

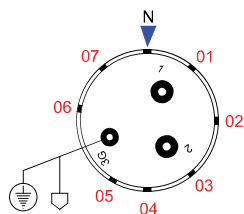
### Termination Information

All inserts are designed for simplified field termination. Control inserts require the use of Vantage crimp tools for safe and reliable circuits. See page CN67 for more information.



## XP STARLINE INSERT CONFIGURATIONS

The **Vantage Inserts** presented in this section illustrate the contact configurations available in the Star-Line series. Most inserts are available in alternate key positions to prevent the inter-mating of like configurations in your system. Power inserts (GD/SD) are designed with oversized contacts to maximize cooling. Wire size indicates maximize wire gauge that can be terminated to contact.



**Insert Reference**

Pins: GD-16-51PL

Sockets: GD-16-51SL

**3 Contacts**

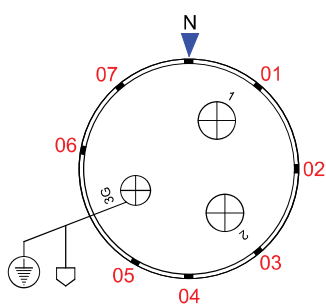
CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	WIRE AWG (MM <sup>2</sup> )	SHELL SIZE
3	4 (25)	8 (10)	16

KEY	POSITION
N	0°
01	40°
02	90°
03	140°
04	180°
05	210°
06	280°
07	320°

	1000 VAC 50/60/400Hz Non-Circuit Breaking	32 AMP
	600 VAC 60/400Hz Circuit Breaking	30 AMP
	480 VAC 60/400Hz Circuit Breaking	30 AMP



**Insert Reference**

Pins: GD-20-61PL

Sockets: GD-20-61SL

**3 Contacts**

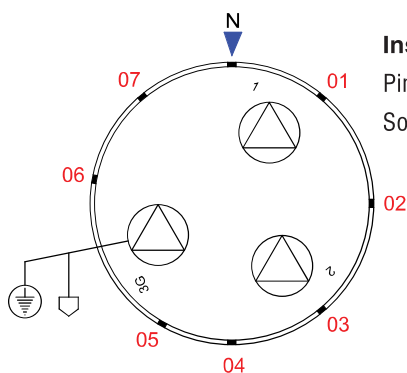
CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	WIRE AWG (MM <sup>2</sup> )	SHELL SIZE
3	1/0 (55)	4 (25)	20

KEY	POSITION
N	0°
01	40°
02	90°
03	140°
04	180°
05	210°
06	280°
07	320°

	1000 VAC 50/60/400Hz Non-Circuit Breaking	63 AMP
	600 VAC 60/400Hz Circuit Breaking	60 AMP
	480 VAC 60/400Hz Circuit Breaking	60 AMP



**Insert Reference**

Pins: GD-24-60PL

Sockets: GD-24-60SL

**3 Contacts**

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	WIRE AWG (MM <sup>2</sup> )	SHELL SIZE
3	4/0 (120)	1/0 (55)	24

KEY	POSITION
N	0°
01	40°
02	90°
03	140°
04	180°
05	210°
06	280°
07	320°

	1000 VAC 50/60/400Hz Non-Circuit Breaking	125 AMP
	600 VAC 60/400Hz Circuit Breaking	100 AMP
	480 VAC 60/400Hz Circuit Breaking	100 AMP

View Shown: Male insert (pins) from front of connector. The female insert (sockets) view is mirrored.

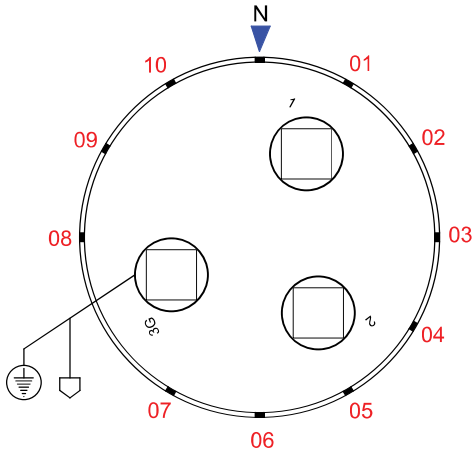
Symbol: Contact grounded to connector shell. Ground pins are longer to make first - break last.	CONTACT SYMBOLS	CONTACT SYMBOLS									
		PRESSURE CRIMP	○	●	⊕	○	⦿	⦿	⊕	⊕	⊕
<b>CONTACT SIZE</b>	<b>AWG</b>	18	16	12	10	8	4	1/0	4/0	350 MCM	
	<b>mm<sup>2</sup></b>	0.75	1.5	4	6	10	25	55	120	185	
<b>WIRE SIZE</b>	<b>AWG</b>	18	16	12	10	8	8	4	1/0	4/0	
	<b>mm<sup>2</sup></b>	0.75	1.5	4	6	10	10	25	55	120	

# CONNECTORS

## EXPLOSIONPROOF STARLINE



### XP STARLINE INSERT CONFIGURATIONS



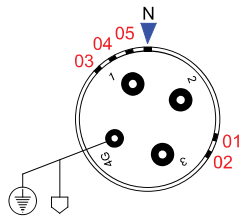
**Insert Reference**  
 Pins: GD-28-30PL  
 Sockets: GD-28-30SL

#### 3 Contacts

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	WIRE AWG (MM <sup>2</sup> )	SHELL SIZE
3	350 MCM (185)	4/0 (120)	28

	1000 VAC 50/60/400Hz Non-Circuit Breaking	260 AMP
	600 VAC 60/400Hz Circuit Breaking	200 AMP
	480 VAC 60/400Hz Circuit Breaking	200 AMP

KEY	POSITION
N	0°
01	40°
02	90°
03	140°
04	180°
05	210°
06	280°
07	320°
08	270°
09	300°
10	330°



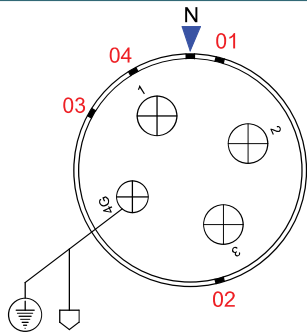
**Insert Reference**  
 Pins: GD-16-23PL  
 Sockets: GD-16-23SL

#### 4 Contacts

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	WIRE AWG (MM <sup>2</sup> )	SHELL SIZE
4	4 (25)	8 (10)	16

	1000 VAC 50/60/400Hz Non-Circuit Breaking	32 AMP
	600 VAC 60/400Hz Circuit Breaking	30 AMP
	480 VAC 60/400Hz Circuit Breaking	30 AMP

KEY	POSITION
N	0°
01	105°
02	120°
03	315°
04	330°
05	345°



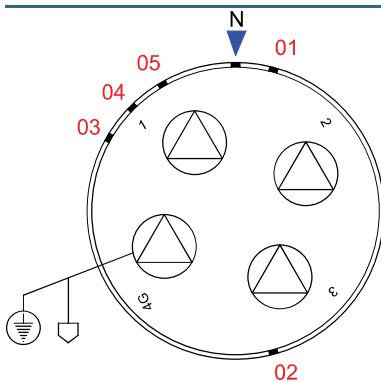
**Insert Reference**  
 Pins: GD-20-40PL  
 Sockets: GD-20-40SL

#### 4 Contacts

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	WIRE AWG (MM <sup>2</sup> )	SHELL SIZE
4	1/0 (55)	4 (25)	20

	1000 VAC 50/60/400Hz Non-Circuit Breaking	63 AMP
	600 VAC 60/400Hz Circuit Breaking	60 AMP
	480 VAC 60/400Hz Circuit Breaking	60 AMP

KEY	POSITION
N	0°
01	15°
02	165°
03	300°
04	330°



**Insert Reference**  
 Pins: GD-24-39PL  
 Sockets: GD-24-39SL

#### 4 Contacts

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	WIRE AWG (MM <sup>2</sup> )	SHELL SIZE
4	4/0 (120)	1/0 (55)	24

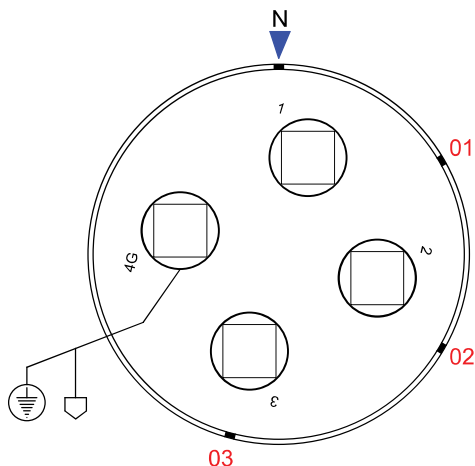
	1000 VAC 50/60/400Hz Non-Circuit Breaking	125 AMP
	600 VAC 60/400Hz Circuit Breaking	100 AMP
	480 VAC 60/400Hz Circuit Breaking	100 AMP

KEY	POSITION
N	0°
01	15°
02	165°
03	300°
04	315°
05	330°



## XP STARLINE INSERT CONFIGURATIONS

### 4 Contacts



**Insert Reference**  
 Pins: GDU-28-31PL  
 Sockets: GDU-28-31SL

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	WIRE AWG (MM <sup>2</sup> )	SHELL SIZE
4	350 MCM (185)	4/0 (120)	28

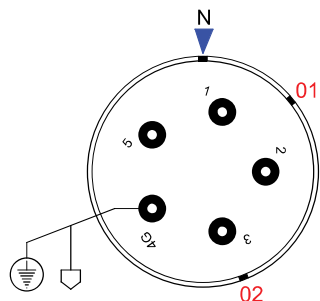
  

KEY	POSITION
N	0°
01	60°
02	120°
03	195°

	1000 VAC 50/60/400Hz Non-Circuit Breaking	260 AMP
	600 VAC 60/400Hz Circuit Breaking	200 AMP
	480 VAC 60/400Hz Circuit Breaking	200 AMP

### 5 Contacts



**Insert Reference**  
 Pins: GD-20-36PL  
 Sockets: GD-20-36SL

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	WIRE AWG (MM <sup>2</sup> )	SHELL SIZE
5	4 (25)	8 (10)	20

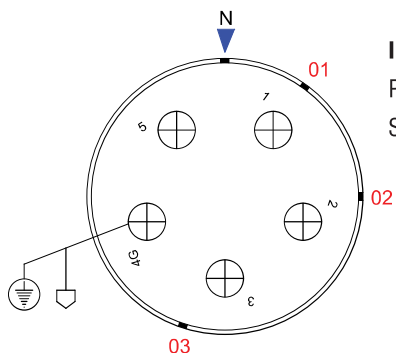
  

KEY	POSITION
N	0°
01	51°
02	159°

	1000 VAC 50/60/400Hz Non-Circuit Breaking	32 AMP
	600 VAC 60/400Hz Circuit Breaking	30 AMP
	480 VAC 60/400Hz Circuit Breaking	30 AMP

### 5 Contacts



**Insert Reference**  
 Pins: GD-24-29PL  
 Sockets: GD-24-29SL

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	WIRE AWG (MM <sup>2</sup> )	SHELL SIZE
5	1/0 (55)	4 (25)	24

KEY	POSITION
N	0°
01	36°
02	90°
03	198°

	1000 VAC 50/60/400Hz Non-Circuit Breaking	63 AMP
	600 VAC 60/400Hz Circuit Breaking	60 AMP
	480 VAC 60/400Hz Circuit Breaking	60 AMP

View Shown: Male insert (pins) from front of connector. The female insert (sockets) view is mirrored.

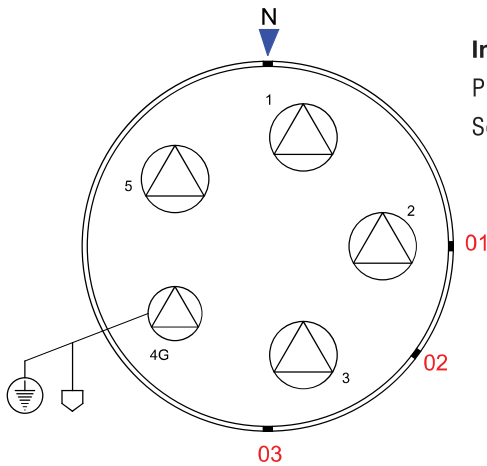
Symbol: Contact grounded to connector shell. Ground pins are longer to make first - break last.	PRESSURE  CRIMP 	CONTACT SYMBOLS		○	●	⊕	○	⦿	⦿	⊕	△	□
		CONTACT SIZE	AWG	18	16	12	10	8	4	1/0	4/0	350 MCM
		mm <sup>2</sup>	0.75	1.5	4	6	10	25	55	120	185	
		WIRE SIZE	AWG	18	16	12	10	8	8	4	1/0	4/0
		mm <sup>2</sup>	0.75	1.5	4	6	10	10	25	55	120	

# CONNECTORS

## EXPLOSIONPROOF STARLINE



### XP STARLINE INSERT CONFIGURATIONS



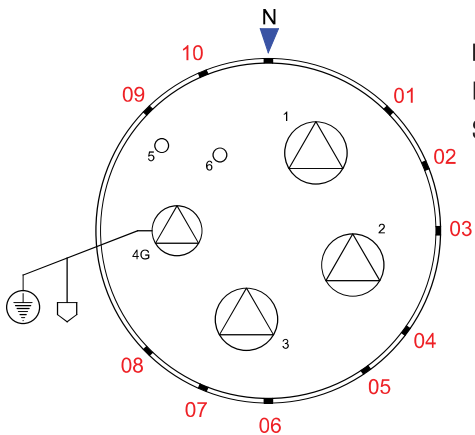
**Insert Reference**  
 Pins: GD-28-23PL  
 Sockets: GD-28-23SL

#### 5 Contacts

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	WIRE AWG (MM <sup>2</sup> )	SHELL SIZE
5	4/0 (120)	1/0 (55)	28

	1000 VAC 50/60/400Hz Non-Circuit Breaking	125 AMP
	600 VAC 60/400Hz Circuit Breaking	100 AMP
	480 VAC 60/400Hz Circuit Breaking	100 AMP

KEY	POSITION
N	0°
01	90°
02	126°
03	180°



**Insert Reference**  
 Pins: GD-28-42PL  
 Sockets: GD-28-42SL

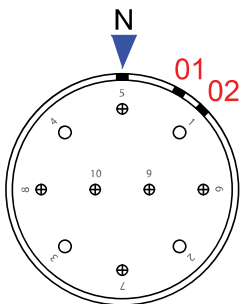
#### 6 Contacts

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	WIRE AWG (MM <sup>2</sup> )	SHELL SIZE
4	4/0 (120)	4/0 (120)	28
2	10 (6)	10 (6)	

	1000 VAC 50/60/400Hz Non-Circuit Breaking	260 AMP
	600 VAC 60/400Hz Circuit Breaking	200 AMP
	480 VAC 60/400Hz Circuit Breaking	200 AMP

KEY	POSITION
N	0°
01	45°
02	67.5°
03	90°
04	126°
05	145°
06	180°
07	202.5°
08	225°
09	315°
10	337.5°

NOTE: Relay pins 5 & 6 are shorter to make last / break first



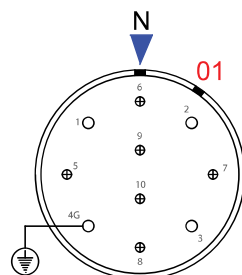
**Insert Reference**  
 Pins: VT-16-681PL  
 Sockets: VT-16-681SL

#### 10 Contacts

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE
6	12 (4.0)	16
4	10 (6.0)	

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	63 AMP
	250 VAC 60Hz Circuit Breaking	60 AMP

KEY	POSITION
N	0°
01	30°
02	45°



**Insert Reference**  
 Pins: VT-16-676PL  
 Sockets: VT-16-676SL

#### 10 Contacts

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE
6	12 (4.0)	16
4	10 (6.0)	

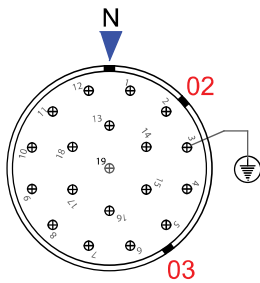
	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	20/30 AMP
	250 VAC 60Hz Circuit Breaking	10 AMP

KEY	POSITION
N	0°
01	30°



## XP STARLINE INSERT CONFIGURATIONS

### 19 Contacts



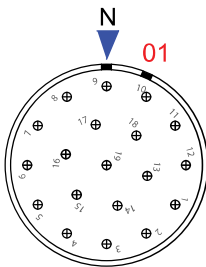
**Insert Reference**  
 Pins: VT-16-612PL  
 Sockets: VT-16-612SL

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE
19	12 (4)	16

KEY	POSITION
N	0°
02	48°
03	144°

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	20 AMP
	250 VAC 60Hz Circuit Breaking	10 AMP

### 19 Contacts



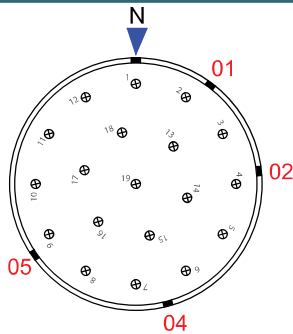
**Insert Reference**  
 Pins: VT-16-677PL  
 Sockets: VT-16-677SL

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE
19	12 (4)	16

KEY	POSITION
N	0°
01	24°

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	20 AMP
	250 VAC 60Hz Circuit Breaking	10 AMP

### 19 Contacts



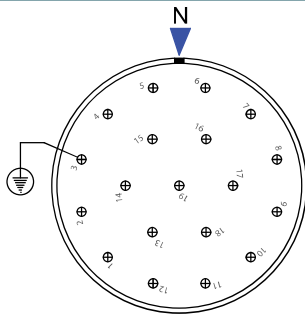
**Insert Reference**  
 Pins: VT-20-676PL  
 Sockets: VT-20-676SL

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE
19	12 (4)	20

KEY	POSITION
N	0°
01	37°
02	84°
04	165°
05	235°
02	45°

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	20 AMP
	480 VAC Non-Circuit Breaking 250 VAC Circuit Breaking 60Hz	10 AMP

### 19 Contacts



**Insert Reference**  
 Pins: VT-20-688PL  
 Sockets: VT-20-688SL

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE
19	12 (4)	20

KEY	POSITION
N	0°

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	20 AMP
	480 VAC Non-Circuit Breaking 250 VAC Circuit Breaking 60Hz	10 AMP

View Shown: Male insert (pins) from front of connector. The female insert (sockets) view is mirrored.

Symbol: Contact grounded to connector shell. Ground pins are longer to make first - break last.	CONTACT SYMBOLS	CONTACT SIZE									
		AWG	18	16	12	10	8	4	1/0	4/0	350 MCM
PRESSURE  CRIMP 	CONTACT SIZE	mm <sup>2</sup>	0.75	1.5	4	6	10	25	55	120	185
	WIRE SIZE	AWG	18	16	12	10	8	8	4	1/0	4/0
		mm <sup>2</sup>	0.75	1.5	4	6	10	10	25	55	120

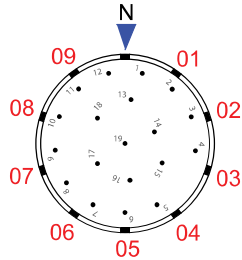


# CONNECTORS

## EXPLOSIONPROOF STARLINE



### XP STARLINE INSERT CONFIGURATIONS



**Insert Reference**

Pins: VT-16-655PL

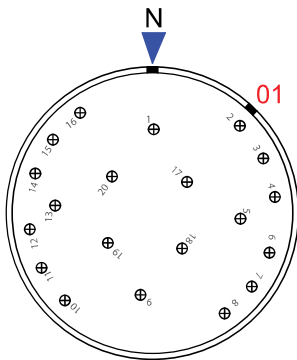
Sockets: VT-16-655SL

**19 Contacts**

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE
19	16 (1.5)	16

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	15 AMP
		250 VAC 60Hz Circuit Breaking

KEY	POSITION
N	0°
01	36°
02	72°
03	108°
04	144°
05	180°
06	216°
07	252°
08	288°
09	324°



**Insert Reference**

Pins: VT-20-632PL

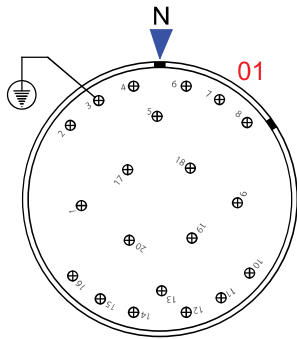
Sockets: VT-16-632SL

**20 Contacts**

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE
20	12 (4)	20

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	20 AMP
		250 VAC 60Hz Circuit Breaking

KEY	POSITION
N	0°
01	42.5°



**Insert Reference**

Pins: VT-20-687PL

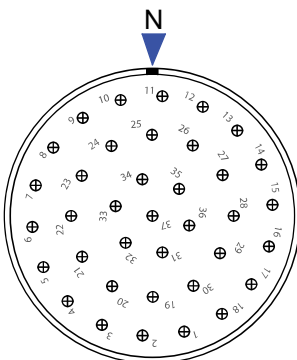
Sockets: VT-20-687SL

**20 Contacts**

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE
19	12 (4)	20

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	20 AMP
		250 VAC 60Hz Circuit Breaking

KEY	POSITION
N	0°
01	56°



**Insert Reference**

Pins: VT-20-686PL

Sockets: VT-20-686SL

**37 Contacts**

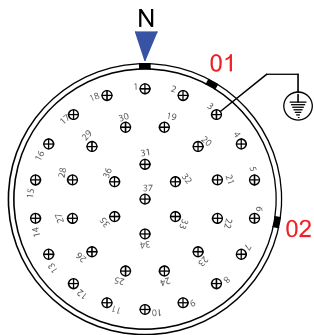
CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE
37	12 (4)	20

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	20 AMP
		250 VAC 60Hz Circuit Breaking

KEY	POSITION
N	0°



## XP STARLINE INSERT CONFIGURATIONS



**Insert Reference**

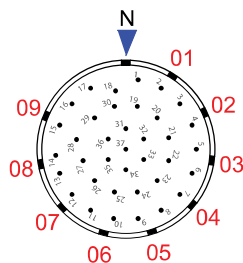
Pins: VT-20-650PL  
Sockets: VT-20-650SL

**37 Contacts**

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE
37	12 (4)	20

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	20 AMP
	250 VAC 60Hz Circuit Breaking	10 AMP

KEY	POSITION
N	0°
01	30°
02	100°



**Insert Reference**

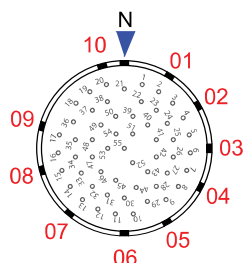
Pins: VT-16-621PL  
Sockets: VT-16-621SL

**37 Contacts**

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE
37	16 (1.5)	16

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	15 AMP
	250 VAC 60Hz Circuit Breaking	6.5 AMP

KEY	POSITION
N	0°
01	32.5°
02	65°
03	97.5°
04	130°
05	162.5°
06	195°
07	227.5°
08	260°
09	292.5°



**Insert Reference**

Pins: VT-16-640PL  
Sockets: VT-16-640SL

**55 Contacts**

CONTACT QUANTITY	CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE
55	18 (0.75)	16

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	15 AMP
	250 VAC 60Hz Circuit Breaking	6.5 AMP

KEY	POSITION
N	0°
01	32°
02	60°
03	90°
04	117°
05	150°
06	180°
07	220°
08	255°
09	285°
10	345°

View Shown: Male insert (pins) from front of connector. The female insert (sockets) view is mirrored.

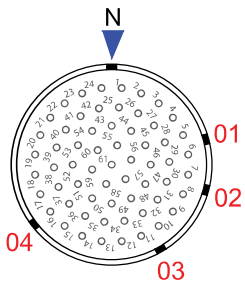
Symbol: Contact grounded to connector shell. Ground pins are longer to make first - break last.	CONTACT SYMBOLS	CONTACT SYMBOLS									
		CONTACT SIZE	AWG	18	16	12	10	8	4	1/0	4/0
 PRESSURE   CRIMP		mm <sup>2</sup>	0.75	1.5	4	6	10	25	55	120	185
		WIRE SIZE	AWG	18	16	12	10	8	8	4	1/0
		mm <sup>2</sup>	0.75	1.5	4	6	10	10	25	55	120

# CONNECTORS

EXPLOSIONPROOF STARLINE



## XP STARLINE INSERT CONFIGURATIONS



**Insert Reference**  
 Pins: VT-16-633PL  
 Sockets: VT-16-633SL

### 61 Contacts

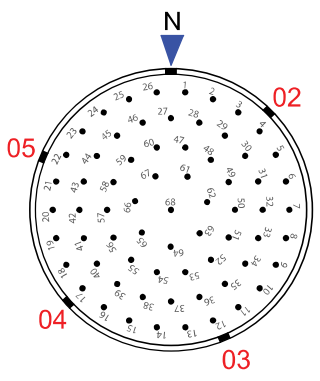
CONTACT QUANTITY		CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE	
61		18 (0.75)	16	

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	10 AMP	<b>KEY</b>	<b>POSITION</b>	
			N	0°	
				01	75°
				02	105°
				03	150°
				04	232.5°

	250 VAC 60Hz Circuit Breaking	3.5 AMP		
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**Insert Reference**  
 Pins: VT-20-613PL  
 Sockets: VT-20-613SL

### 68 Contacts

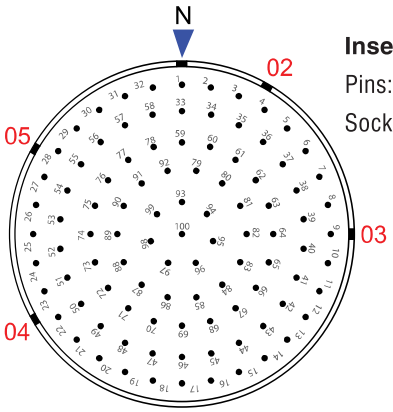
CONTACT QUANTITY		CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE	
68		16 (1.5)	20	

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	15 AMP	<b>KEY</b>	<b>POSITION</b>	
			N	0°	
				02	45°
				03	157.5°
				04	228°
				05	292.5°

	250 VAC 60Hz Circuit Breaking	6.5 AMP		
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**Insert Reference**  
 Pins: VT-24-613PL  
 Sockets: VT-24-613SL

### 100 Contacts

CONTACT QUANTITY		CONTACT AWG (MM <sup>2</sup> )	SHELL SIZE	
100		16 (1.5)	24	

	250 VAC 50/60/400Hz 125 VDC Non-Circuit Breaking	15 AMP	<b>KEY</b>	<b>POSITION</b>	
			N	0°	
				02	30°
				03	90°
				04	240°
				05	300°

	250 VAC 60Hz Circuit Breaking	5.0 AMP		
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View Shown: Male insert (pins) from front of connector. The female insert (sockets) view is mirrored.

Symbol: Contact grounded to connector shell. Ground pins are longer to make first - break last.	CONTACT SYMBOLS	CONTACT SYMBOLS										
	<b>CONTACT SIZE</b>	<b>AWG</b>	18	16	12	10	8	4	1/0	4/0	350 MCM	
		<b>mm<sup>2</sup></b>	0.75	1.5	4	6	10	25	55	120	185	
	<b>WIRE SIZE</b>	<b>AWG</b>	18	16	12	10	8	8	4	1/0	4/0	
		<b>mm<sup>2</sup></b>	0.75	1.5	4	6	10	10	25	55	120	