



Inelco Hunter Limited

STARLINE|EX[®] SERIES from

Amphenol Industrial

Available from **Inelco** Hunter

STARLINE | EX INTRODUCTION

- HEAVY DUTY CIRCULAR CONNECTOR SERIES SUITABLE FOR CLASS 1 AND ZONE 1 HAZARDOUS LOCATIONS
- INSERT PATTERNS FOR CONTROL AND POWER UP TO 1500A
- COPPER AND FIBER OPTICS INSERT OPTIONS
- 300 DAYS SALT SPRAY RESISTANCE IN HARD COATED ALUMINUM. THE COATING OF THE EXPOSED SURFACES IS TYPE III (HARDCOAT) ANODIZING.
 - I. HARDNESS: 65 TO 70 ROCKWELL C. IT PROTECTS THE ALUMINUM PARTS BY MAKING THE SURFACE MUCH HARDER THAN NATURAL AL
 - II. CORROSION RESISTANT PER MIL-A-8625.
 - III. COATING THICKNESS: 0.002" AVERAGE
 - IV. DIELECTRIC: HARDCOAT IN NON-CONDUCTIVE AND WILL WITHSTAND 800 VOLTS PE
- AVAILABLE ALSO IN AISI316L
- WORKING TEMPERATURE OF -55C TO + 125C / -55C TO +55C IEC EX
- EMI SHIELDING WITH THROUGH SHELL CONDUCTIVITY
- MIN 500 MATING CYCLES GUARANTEED
- GOLD PLATED CONTACTS
- IP66/IP68 CAP WITH CORD IS SUPPLIED WITH THE CONNECTORS
- POTTING REQUIRED AND SUPPLIED WITH THE PANEL RECEPTACLE ONLY



STARLINE | EX CERTIFICATIONS

- ATEX/IECEX ZONE 1/2 EXDE CERTIFIED + OP-PR/OP-IS

EN/IEC 60079-0 : 2012+A11:2013

EN/IEC 60079-1 :2014

EN/IEC 60079-31 :2014

EN/IEC 60079-7 : 2015

EN/IEC 60079-28 : 2015 (OPTICAL RADIATION)

- AEX - HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US&CANADA REQUIREMENTS

FM CLASS 3600:2011, ANSI/ISA 60079-0:2013, ANSI/UL 60079-1:2015,

ANSI/UL 60079-7:2017, ANSI/ISA 60079-31:2015, ANSI/UL 1682:2007, ANSI/IEC 60529:2004

CSA-C22.2 No. 25:R2014, CSA-C22.2 No. 182.1:2007, CSA-C22.2 No. 182.3:2004,

CSA-C22.2 No. 60529:R2010, CAN/CSA-C22.2 No. 60079-0:2015, CAN/CSA-C22.2 No. 60079-1:2016,

CAN/CSA-C22.2 No. 60079-7:2016, CAN/CSA-C22.2 No. 60079-31:2015

- INMETRO - BRAZIL

- EAC - RUSSIA



STARLINE | EX STRAIGHT PLUG HARDWARE



EX13-3 TYPE
PLUG WITH CABLE GLAND
NO POTTING REQUIRED



EX13-2 TYPE
PLUG WITH MECHANICAL CLAMP
POTTING* REQUIRED



EX13-4 TYPE
PLUG WITH COMPRESSION NUT & BASKET WEAVE GRIP
POTTING* REQUIRED

**POTTING IS SUPPLIED WITH CONNECTOR

STARLINE | EX RECEPTACLE HARDWARE



EX17-3 TYPE
WALL MOUNT RECEPTACLE WITH CABLE GLAND
NO POTTING REQUIRED



EX17-2 TYPE
WALL MOUNT RECEPTACLE WITH MECHANICAL CLAMP
POTTING* REQUIRED



EX17-4 TYPE
WALL MOUNT RECEPTACLE WITH COMPRESSION NUT & BASKET WEAVE GRIP
POTTING* REQUIRED



EX17-1 TYPE
PANEL MOUNT RECEPTACLE WITH THREAD
POTTING* REQUIRED

STARLINE | EX INLINE RECEPTACLE HARDWARE



EX15-3 TYPE
INLINE RECEPTACLE WITH CABLE GLAND
NO POTTING REQUIRED



EX15-2 TYPE
INLINE RECEPTACLE WITH MECHANICAL CLAMP
POTTING* REQUIRED



EX15-4 TYPE
INLINE RECEPTACLE WITH COMPRESSION NUT & BASKET WEAVE GRIP
POTTING* REQUIRED

**POTTING IS SUPPLIED WITH CONNECTOR

STARLINE | EX SPECIAL HARDWARE



HERMETIC SOLUTION



MM OR SM FIBER SOLUTION



AISI 316L SOLUTION



ROUND FLANGE RECEPTACLE

STARLINE | EX CONNECTION OPTIONS



EX13-3 STRAIGHT PLUG



EX17-1 PANEL MOUNT RECEPTACLE FOR A EEXD JUNCTION BOX TO PLUG CONNECTION
(REQUIRES POTTING ON THE BACK WHICH IS SUPPLIED WITH THE CONNECTOR)



EX17-3 WALL MOUNT RECEPTACLE WHICH CAN REPLACE AN EEXD JUNCTION BOX
SOLUTION MOUNTABLE ON A FRAME/BRACKET



EX15-3 INLINE RECEPTACLE WHICH CAN REPLACE AN EEXD JUNCTION BOX
“FLYING” CONNECTION

STARLINE | EX THROUGH SHELL CONDUCTIVITY

INDUCED CURRENTS:

DURING NORMAL OPERATIONS, THE SHIELDING OF ELECTRICAL CABLES CAN BECOME ENERGIZED DUE TO ELECTROSTATIC AND ELECTRODYNAMIC INDUCTION. IF THIS ENERGY IS NOT DISSIPATED, A DANGEROUS POTENTIAL MAY OCCUR. TO PREVENT THE BUILD UP OF ELECTRICAL POTENTIAL, THE SCREEN SHOULD BE RUN TO GROUND. TO ASSIST THE GROUNDING OF THE CABLE SCREENING, 'THROUGH SHELL CONDUCTIVITY' HAS BEEN DEVELOPED.

THROUGH SHELL CONDUCTIVITY:

THIS IS WHERE THE CABLE SCREEN IS ELECTRICALLY BONDED TO THE CABLE ADAPTER THROUGH THE CABLE GLAND, THEN THROUGH A GROUNDING SYSTEM, TO THE FRONT OF THE PLUG. WHEN THE PLUG IS MATED TO THE CORRESPONDING RECEPTACLE, ANY INDUCED CURRENT CAN BE TRANSMITTED THROUGH THE RECEPTACLE AND THEN GROUNDED BY THE RECEPTACLE MOUNTING BOLT. TO ACHIEVE THROUGH SHELL CONDUCTIVITY, DISCRETE AREAS OF HARDCOAT HAVE BEEN REPLACED BY ELECTRICALLY CONDUCTIVE IRIDITING. WITH THESE CONNECTOR SERIES, THERE IS ALSO THE ADDITION OF A CONDUCTIVE SPRING INSTALLED AT THE BASE OF THE RECEPTACLE.



(PLEASE NOTE, THROUGH SHELL CONDUCTIVITY IS NOT INTENDED TO SERVE AS THE PRIMARY GROUNDING LOOP FOR AN ELECTRICAL CIRCUIT)




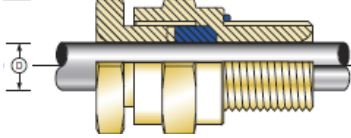

STARLINE | EX INSERT PATTERN OPTIONS

Insert Arrangement Number	MOD I	MOD II	MOD III	Radsok Contacts	Total Number of Contacts	18 (0.75)	16 (1.5)	12 (4.0)	10 (6.0)	8 (10.0)	4 (250)	10 (50.0)	40 (120.0)	313MCM	360 MCM (185.0)	373 MCM	444 MCM	535 MCM (240.0)	646-777 (300-400)	
RIG-C24-386		X			1															1
RIG-C24-R386	X			X	1															1
RIG-C24-535	X				1													1		
RIG-C24-R535	X		X		1													1		
RIG-C24-313	X				1										1					
RIG-C24-R313	X		X		1										1					
RIG-C24-373	X				1															
RIG-C24-R373	X		X		1											1				
RIG-C24-444	X				1												1			
RIG-C24-R444	X		X		1												1			
ZP-12-310		X(G)		X	7		7													
ZP-12-14	X				4			4												
ZP-12-314		X			4			4												
ZP-12-316		X			4			4												
ZP-12-22	X(G)				4			4												
ZP-12-322		X(G)			4			4												
ZP-12-323		X			17	17														
ZP-12-24	X				5		5													
ZP-12-324		X			5		5													
ZP-12-326	X				5	3			2											
ZP-12-27	X				3		3													
ZP-12-327		X		X	3		3													
ZP-12-330		X(G)		X	3		3													
ZP-12-33	X				4	4														
ZP-12-333		X			4	4														
ZP-12-334	X(G)				10	10														
ZP-12-348		X			7	7														
ZP-12-53	X(G)				5		5													
ZP-12-653			X(G)		5		5													
ZP-12-354		X		X	7		7													
ZP-12-355		X			10	10														
ZP-12-56	X(G)				3			3												
ZP-C-16-341	X											1								
ZP-16-312		X(G)		X	19		19													
ZP-16-16	X				5			5												
ZP-16-316		X			5			5												
ZP-16-321		X			37	37														
ZP-16-22	X				4				4											
ZP-16-322		X			4				4											
ZP-16-324		X			18	16	2													
ZP-16-325		X			16	16														
ZP-16-28	X				4			4												
ZP-16-328		X			4			4												
ZP-16-29	X				9	8			1											
ZP-16-333		X			61	61														
ZP-16-335		X			27	24	3													
ZP-16-37	X				26	18	4	4												
ZP-16-38	X(G)				4				4											
ZP-16-638			X(G)		4				4											
ZP-16-640			X		55	55														
ZP-16-344		X			21	11	10													
ZP-16-346		X			9		6	3												
ZP-16-348		X			14	12			2											
ZP-16-355		X			19	19														

Insert Arrangement Number	MOD I	MOD II	MOD III	Radsok Contacts	Total Number of Contacts	18 (0.75)	16 (1.5)	12 (4.0)	10 (6.0)	8 (10.0)	4 (250)	10 (50.0)	40 (120.0)
ZP-16-70	X				3						3		
ZP-16-371	X			46	45	45				1			
ZP-16-373		X(G)			27		24	3					
ZP-16-74	X(G)				3						3		
ZP-16-75	X(G)				5					5			
ZP-16-376		X(G)			10		6	4					
ZP-16-377		X		X	19		19						
ZP-16-378		X(G)			7		7						
ZP-16-381		X			10		6	4					
ZP-20-313		X			68	68							
ZP-20-323		X			38	35		3					
ZP-20-329		X			64	62		2					
ZP-20-331		X			22	20			2				
ZP-20-32		X			20		20						
ZP-20-332		X		X	20			20					
ZP-20-334		X			20	16			4				
ZP-20-35		X			60	60							
ZP-20-38		X(G)			5				5				
ZP-C20-40		X(G)			4						4		
ZP-C20-640			X(G)		4						4		
ZP-C20-42		X			4						4		
ZP-20-43		X(G)			6			2		4			
ZP-20-643			X(G)		6			2		4			
ZP-20-344		X			81	70		11					
ZP-20-345		X			90	90							
ZP-20-46		X			6				4	2			
ZP-20-646			X		6					4	2		
ZP-20-48		X			6			3			3		
ZP-20-648			X		6			3			3		
ZP-20-49		X			5			3			2		
ZP-20-649			X		5			3			2		
ZP-20-360			X(G)	X	37			37					
ZP-20-354			X		47	45			2				
ZP-20-55		X			10			8				2	
ZP-20-358		X			16					16			
ZP-20-359		X			7					7			
ZP-20-673			X		50	46			4				
ZP-20-374		X			27			25			2		
ZP-20-375		X			12				12				
ZP-20-376		X		X	19			19					
ZP-C20-379		X			1								
ZP-20-84		X			5						5		
ZP-20-384		X			5						5		
ZP-20-386		X		X	37				37				
ZP-20-387		X(G)		X	20				20				
ZP-20-388		X(G)			19				19				
ZP-24-313		X			100			100					
ZP-C24-26		X(G)			4								4

Insert Arrangement Number	MOD I	MOD II	MOD III	Radsok Contacts	Total Number of Contacts	18 (0.75)	16 (1.5)	12 (4.0)	10 (6.0)	8 (10.0)	4 (250)	10 (50.0)	40 (120.0)	360 MCM (185.0)
ZP-24-331		X			60		53	7						
ZP-C24-36	X				37			35					2	
ZP-C24-38	X				4								4	
ZP-24-40	X				15		10						5	
ZP-C24-47	X				15			10					5	
ZP-C24-48	X				5			2					3	
ZP-C24-49	X(G)				5								5	
ZP-24-352		X(G)		X	58			58						
ZP-C24-353		X			8			4					4	
ZP-24-354		X			75	61	11		3					
ZP-24-362		X			62			37						
ZP-24-371		X			37									
ZP-C24-72	X				6			3					3	
ZP-C24-79	X				5								5	
ZP-C24-680			X(G)		10			6					4	
ZP-C24-81	X(G)				15			10					5	
ZP-24-83	X				4								4	
ZP-24-84	X				58			58						
ZP-24-384		X		X	58			58						
ZP-24-385		X			100	100								
ZP-24-388		X			72	72								
ZP-24-389		X			60	60								
ZP-29-314		X			100	83	17							
ZP-C28-15	X				47			43			3	1		
ZP-C28-18	X				6			2						4
ZP-C28-R18	X				6			2						4
ZP-C28-21	X				8		</							

STARLINE | EX GLAND OPTIONS

STARLINE EX CONNECTOR			UNARMORED		ARMORED & SHEATHED					
										
GLAND SIZE	GLAND STANDARD THREAD**	STARLINE EX SHELL SIZES**	OUTER JACKET ("D")		INNER JACKET ("C")		OUTER JACKET ("D")		OUTER JACKET REDUCED BORE ("D")	
			MIN OD MM	MAX OD MM	MIN OD MM	MAX OD MM	MIN OD MM	MAX OD MM	MIN OD MM	MAX OD MM
A1	M16		4,00	8,40	3,40	8,40	9,00	13,50	6,70	10,30
A2	M20		7,20	11,70	7,20	11,70	11,50	16,00	9,40	12,50
A	M20		9,60	14,00	9,40	14,00	15,50	21,10	12,00	17,60
B	M25	12	13,50	20,00	13,50	20,00	20,30	27,40	16,80	23,90
C	M32		19,50	26,30	19,50	26,30	26,70	34,00	23,20	30,50
C2	M40	16	23,00	32,20	23,00	32,20	33,00	40,60	28,60	36,20
D	M50	20/C20	28,20	38,20	28,20	38,20	39,40	46,70	34,80	42,40
D2	M50	20/C20	33,20	44,10	33,20	44,10	45,70	53,20	41,10	48,50
E	M63	24/C24	39,30	50,10	39,30	50,10	52,10	59,50	47,50	54,80
E2	M63	24/C24	46,70	56,00	46,70	56,00	58,40	65,80	53,80	61,20
F	M75	28/C28	52,30	62,00	52,30	62,00	64,80	72,20	60,20	68,00
F2	M75	28/C28	58,10	68,00	58,10	68,00	71,10	78,00	66,50	73,40

**** THERE ARE MANY GLANDS WITH MODIFIED THREADS TO FIT THE DIFFERENT CONNECTORS. IF NOT AVAILABLE REDUCES AND ADAPTERS ARE USED**



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