



POWERMAX

1º FABRICANTE PERUANO DE CONECTORES CERTIFICADOS HASTA MEDIA TENSIÓN

WWW.POWERCONECTOR.COM



Section 1	15kV 800A Bolted System	Page No
	Electrical Type Test Results.....	3
	Model N° Selection Guide.....	4
	Stock Selection Guide.....	5
	Accessories	6
	Technical Guide	7
	Drawings	8
Section 2	15kV 800A Mounting Flanges and Splitters	Page No
	Adaptor Gear Mount	11
	Splitter box 3 way	12
Section 3	Operational and Maintenance Instructions	Page No
	Inserting Connectors and Coupling Operations	13



SECTION 1: 15KV 800A BOLTED SYSTEM

COUPLER AND ACCESORIES HIGH VOLTAGE UP TO 15KV PORTABLE CABLE SYSTEMS COUPLERS

Couplers are utilized in industrial, oil and gas, surface and underground mining, strip, and pit operations. Couplers provide safe, convenient mean for connecting fixed or portable cable rated up to 15,000 volt and up to 800 Amperes, copper or aluminum conductor to mining equipment, electric shovels, drag lines, loaders, barges, tunneling machines, portable substations, portable junction boxes, or for joining lengths of high voltage cables.

Electrical Type Test Results

- ▶ 1 minute dry withstand AC: 50 kV.
- ▶ 5 minutes dry withstand AC: 36 kV.
- ▶ 5 hours dry withstand AC: 31 kV.
- ▶ 15 minutes dry withstand DC: 75 kV.
- ▶ Basic impulse level (BIL) : 110 kV crest : 10 pos and 10 neg.
- ▶ Partial discharge (Corona) Voltage: 15.6kV (< 3pC).
- ▶ Thermal short-circuit test: 20kA @ 1seconds.



POWERMAX

1º FABRICANTE PERUANO DE CONECTORES CERTIFICADOS HASTA MEDIA TENSIÓN

MODEL N° SELECTION GUIDE

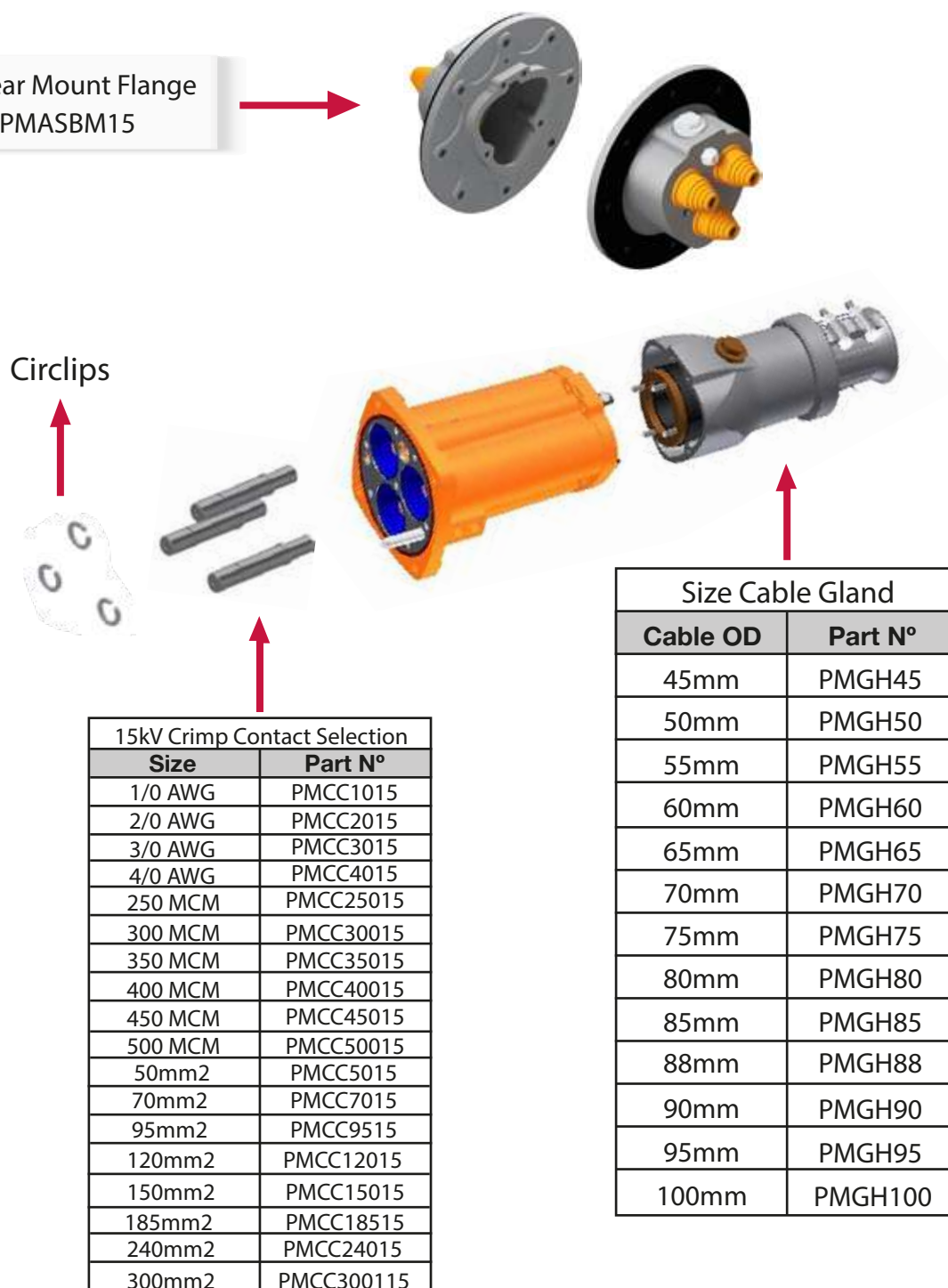


DESCRIPTION	PART NUMBER
(A) 15kV Half Coupler Male	PM1580-XY* XY: Cable diameter max: 45, 50, 55, 60, 65, 70, 75, 80, 85, 88, 90, 95, 100 mm *Cable with armor add suffix "E" *Cable with control conductors add suffix "C"
(B) 15kV Adaptor Gear Mount	MA1580
(C) 15kV Cast Protection Cover	PMCP15
(D) 15kV Phase Connectors (3 required per join)	PM1580-2H
(E) 15kV Earth Pilot Connector (1 required per join)	PMCEP15
(F) 15kV Insulated End Cover	PMCEI15



STOCK SELECTION GUIDE

15kV Gear Mount Flange
Part N°: PMASBM15



PM_404

Version: 2

Date: Feb. 2020



POWERMAX

1º FABRICANTE PERUANO DE CONECTORES CERTIFICADOS HASTA MEDIA TENSIÓN

ACCESORIES



15kV Insulated End Cover
Part N°: PMCI15

15kV Termination kit Large	
Part N° 2804K	
Cable insulation O.D Range:	
23.9mm to 46mm	
03 EA	ColdTerm Terminations
01 EA	Silicone Rubber Tape
01 EA	Semi-Conducting Shielding Tape
01 EA	PVC Premium Tape
03 EA	Mastic strips
03 EA	Ground Assemblies
03 EA	Solvent Packs

15kV Termination kit Small	
Part N° 2803	
Cable insulation O.D Range:	
16.2mm to 28.4mm	
03 EA	ColdTerm Terminations
01 EA	Silicone Rubber Tape
01 EA	Semi-Conducting Shielding Tape
01 EA	PVC Premium Tape
03 EA	Mastic strips
03 EA	Ground Assemblies
03 EA	Solvent Packs

COMPOUND	
Size	Part N°
High Gel 521mL	8882-500C (7 per Coupler)
High Gel 1929mL	8882-1900C (2 per Coupler)
Two-part 8L	CGBUR2AH8002 (For 2 Coupler)

PM_404

Version: 2

Date: Feb. 2020



POWERMAX

1º FABRICANTE PERUANO DE CONECTORES CERTIFICADOS HASTA MEDIA TENSIÓN

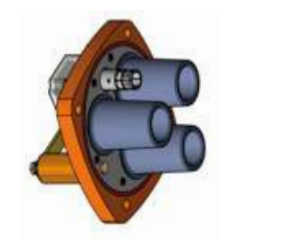
TECHNICAL GUIDE



FEATURES	
Model N°	PM1580-XY
Description	15kV Half Coupler Male
Rating	15kV 800A
Material /Mass	Aluminium / 16-18kg
Lenght	610-716mm
Volume	4 Litres



FEATURES	
Model N°	MA-1580
Description	15kV Adaptor Gear Mount
Rating	15kV 800A
Material /Mass	Aluminium / 16-18kg
Lenght	390mm
Volume	4 Litres



FEATURES	
Model N°	PMCIE15
Description	15kV Cast Cover Protection
Rating	15kV 800A
Material /Mass	Aluminium / 5kg



FEATURES	
Model N°	PMCIE15
Description	15kV Cast Cover Protection
Rating	15kV 800A
Material /Mass	Aluminium / 3kg



FEATURES	
Model N°	PM1580-2H & PMCEP15
Description	15kV Phase connectors & Earth Pilot Connector
Rating	15kV 800A

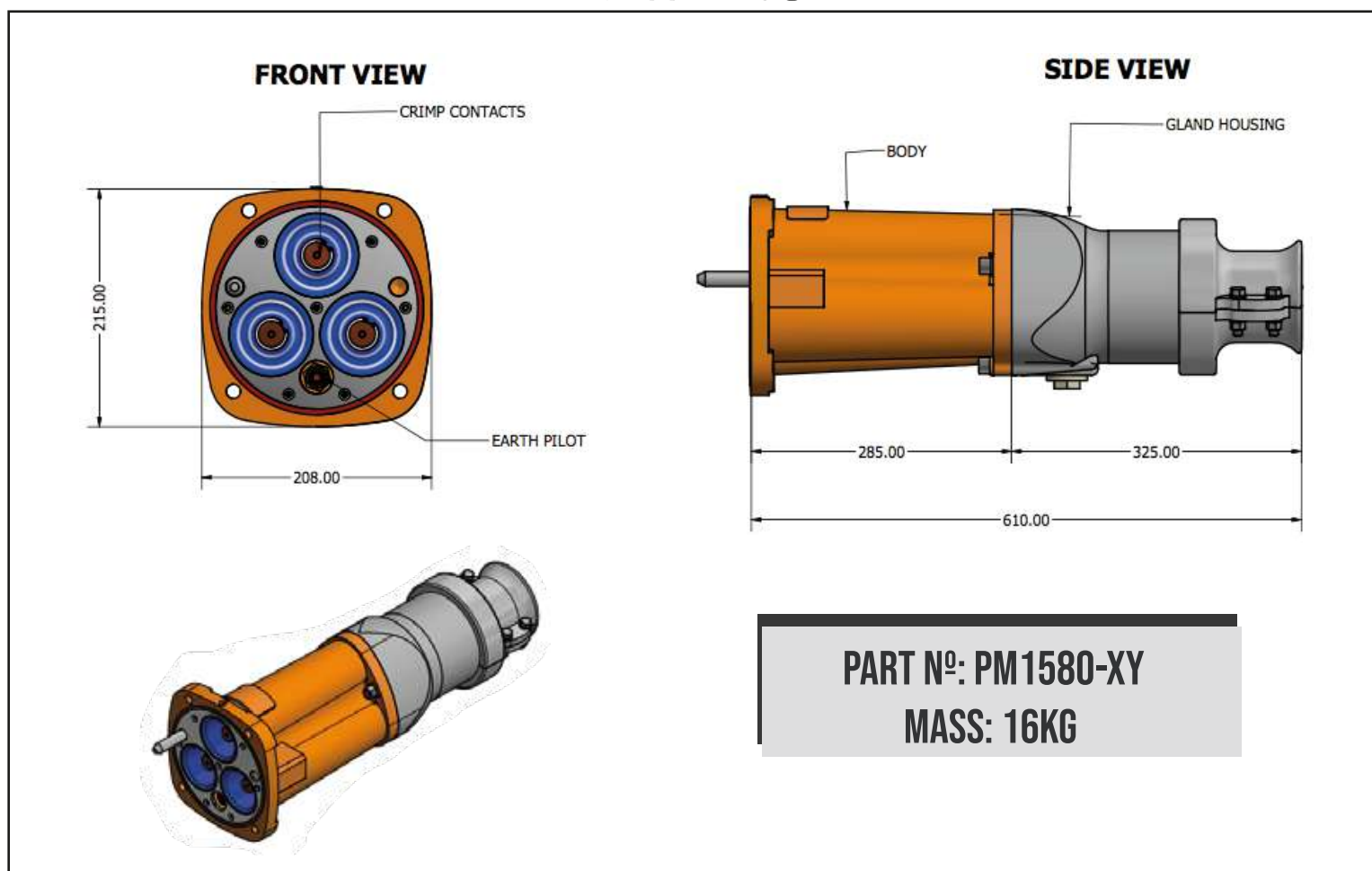
PM_404

Version: 2

Date: Feb. 2020

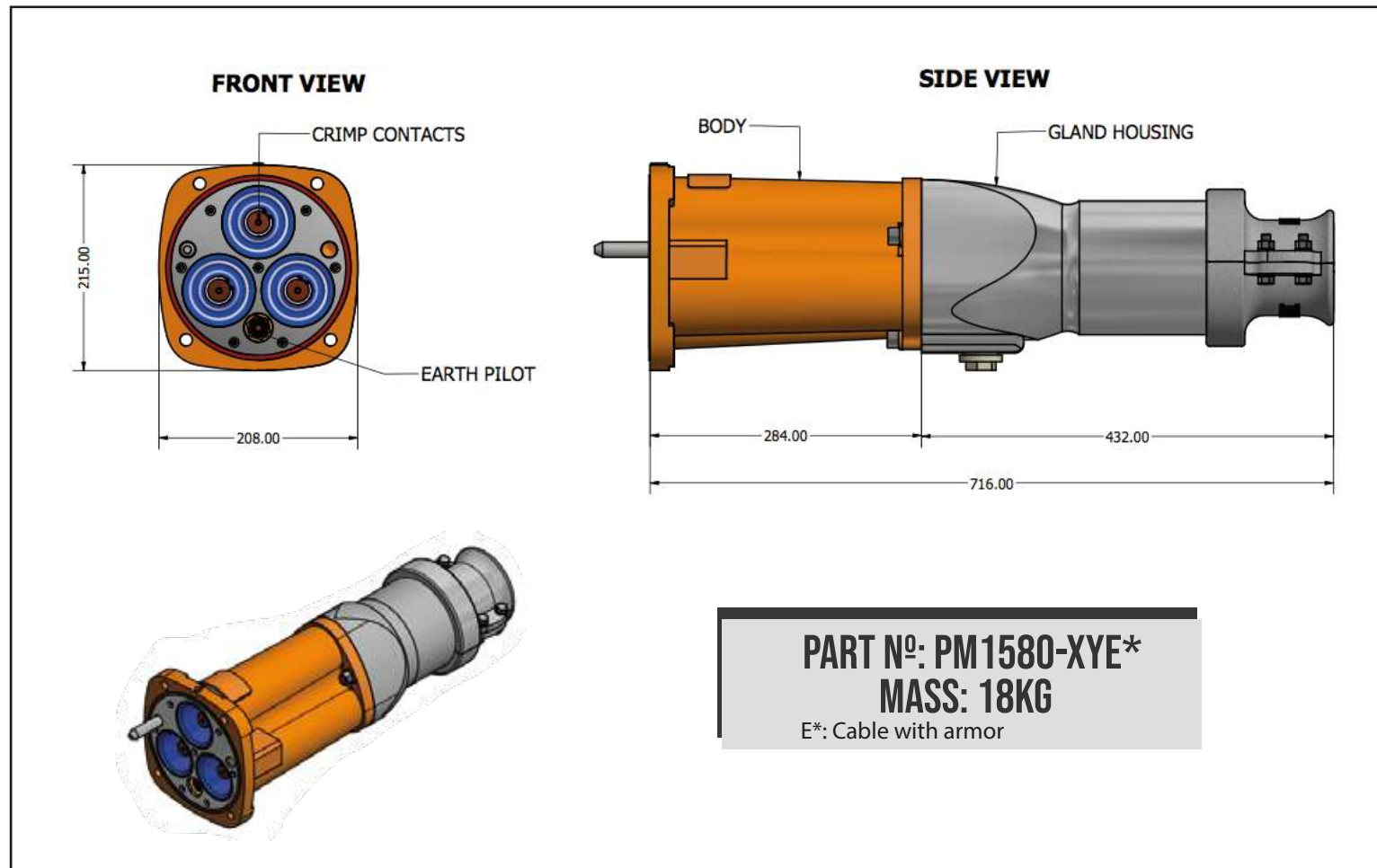


DRAWINGS



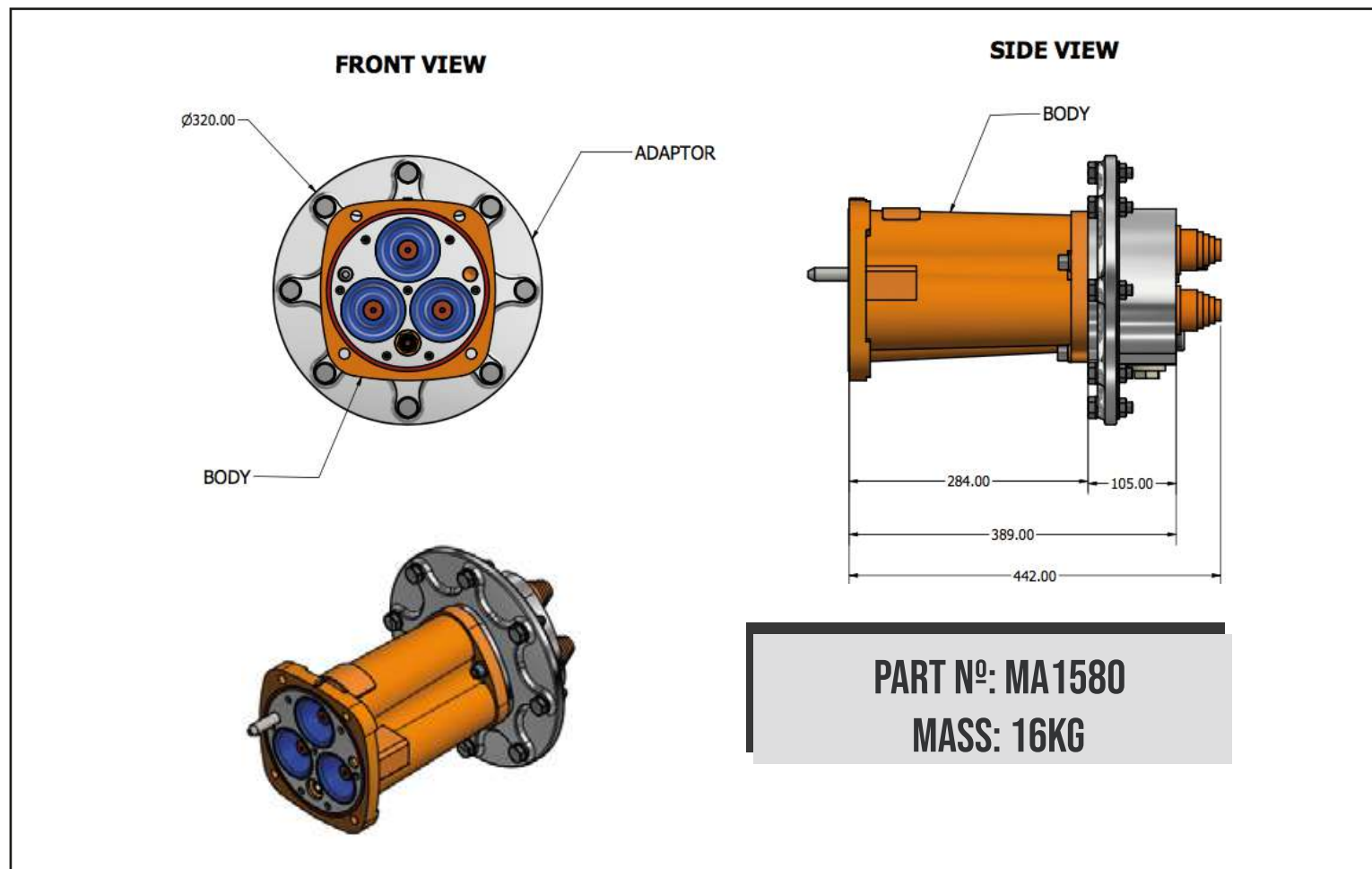


DRAWINGS



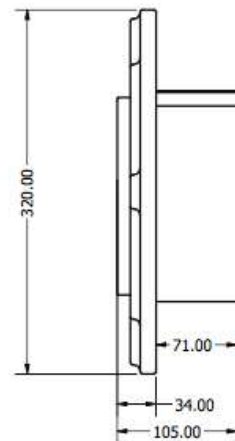


DRAWINGS





ADAPTOR GEAR MOUNT FLANGE ASSEMBLY

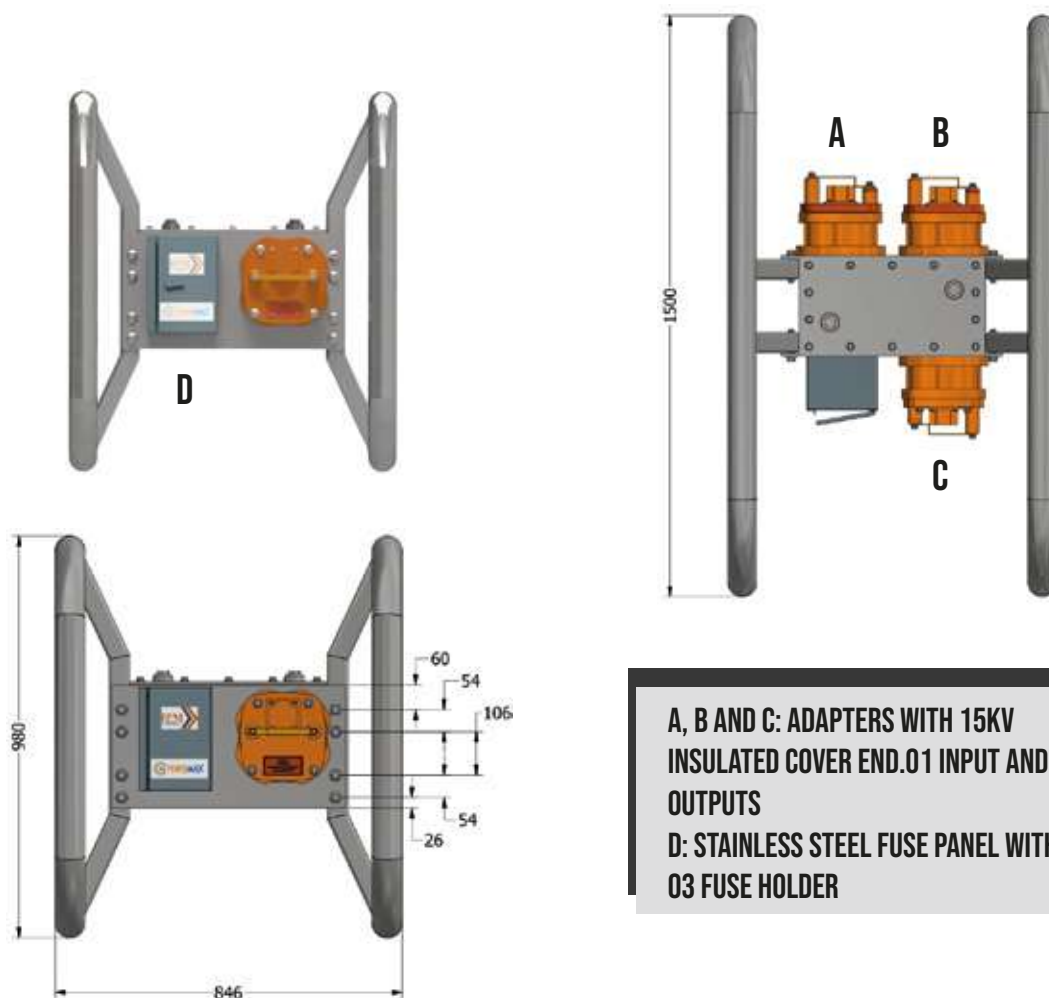


 ventas@powerconector.com



SPLITTER BOX 3WAY

TECHNICAL DATA	
Model N°	PMSB3W15
Description	15kV SPLITTER BOX 3 WAY
Rating	15kV 800A
Material	Adapters: Aluminium Box and Skid: Corrosion Resistant steel galvanized
Mass	Box: 100 kg Total (Box with skid): 170 kg
Dimensions	980x846x1500mm



A, B AND C: ADAPTERS WITH 15KV
INSULATED COVER END.01 INPUT AND 02
OUTPUTS
D: STAINLESS STEEL FUSE PANEL WITH
03 FUSE HOLDER

PM_404

Version: 2

Date: Feb. 2020

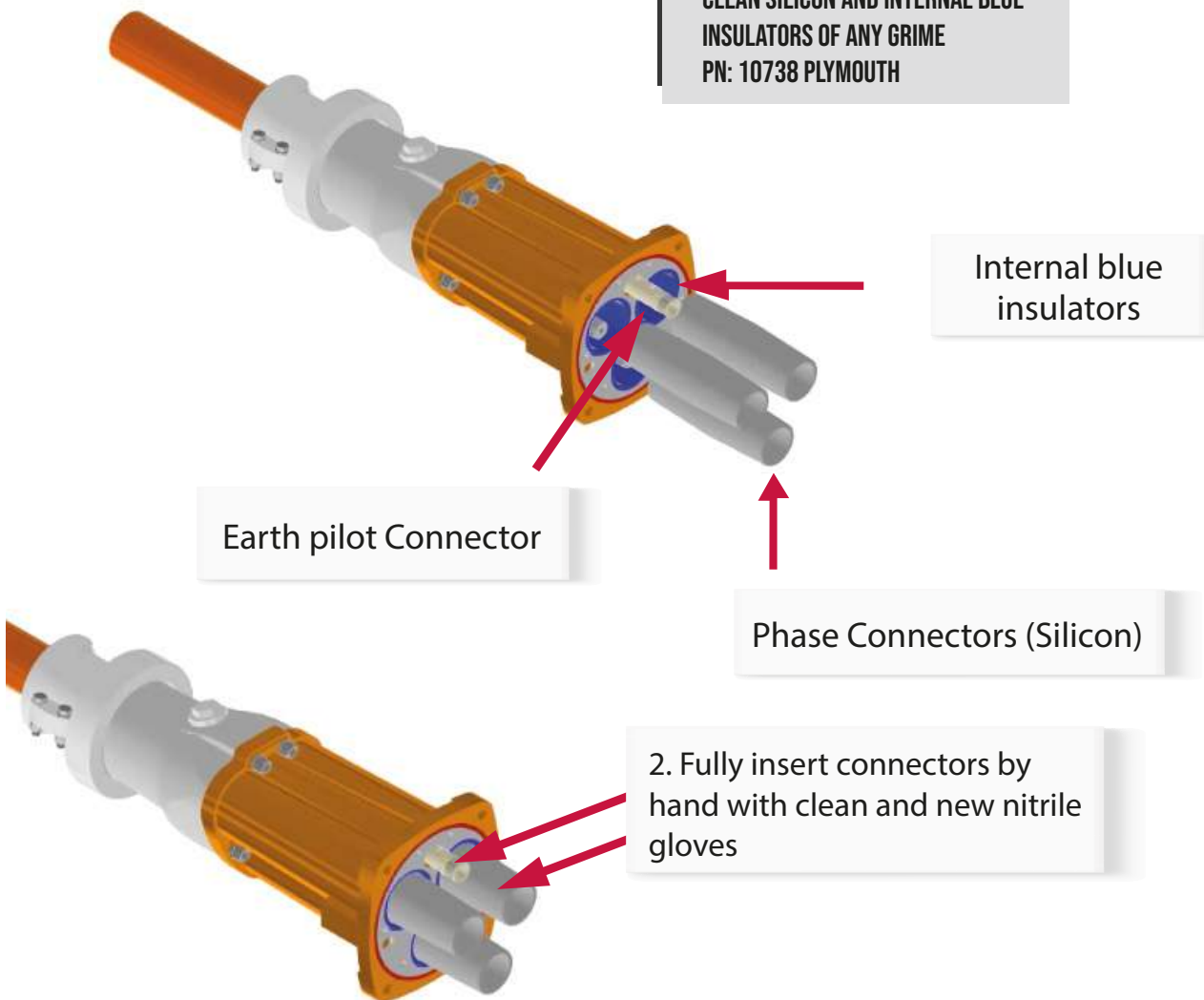


SECTION 3 : OPERATIONAL AND MAINTENANCE INSTRUCTIONS

INSERTING CONNECTORS AND COUPLING OPERATIONS

Important: The electrician must mandatory wear new and clean nitrile gloves

1. USING HIGH VOLTAGE CLEANING
TISSUE OR ISOPROPYL ALCOHOL,
CLEAN SILICON AND INTERNAL BLUE
INSULATORS OF ANY GRIME
PN: 10738 PLYMOUTH



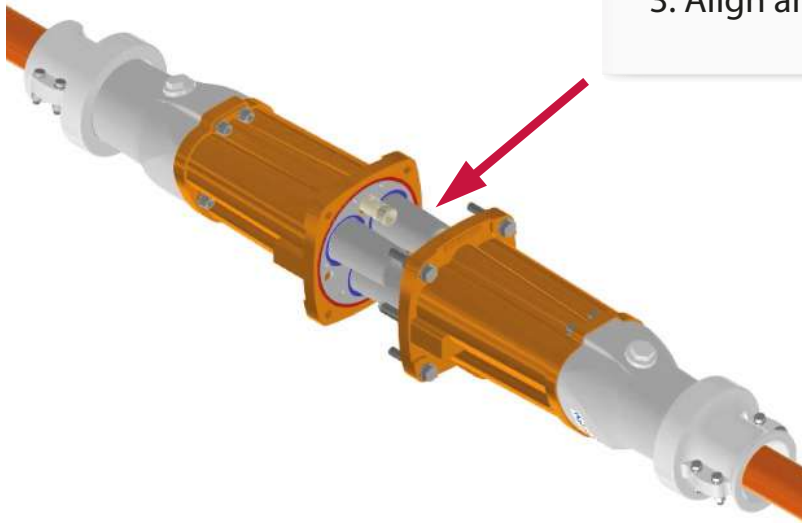


POWERMAX

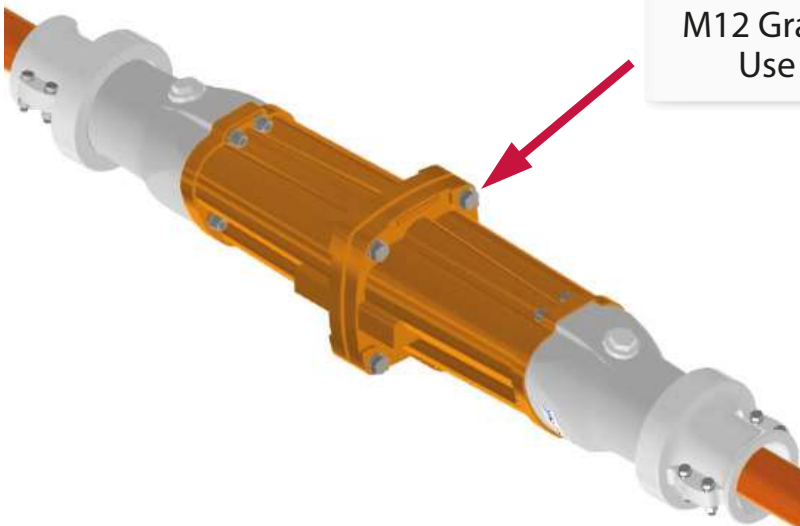
1º FABRICANTE PERUANO DE CONECTORES CERTIFICADOS HASTA MEDIA TENSIÓN

INSERTING CONNECTORS AND COUPLING OPERATIONS

3. Align and connect coupler by hand

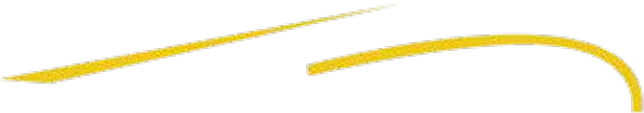


4. Bolt Together
M12 Grade 8.8 with 95N-m
Use torque wrench



Important: Mandatory use torque wrench





PROVEEDORES MINEROS

EXPERTOS EN SOLUCIONES ELÉCTRICAS CERTIFICADAS

GARANTÍA^{DE} STOCK PARA SUS OPERACIONES



OFICINA LIMA-PERÚ

CALLE FELIPE SALAVERRY N°352
URB. EL PINO-SAN LUIS

OFICINA AREQUIPA-PERÚ

CALLE CARLOS BACA FLOR 135-B
UMACOLLO

OFICINA BOGOTÁ-COLOMBIA

CRA 25 N° 48A 14SUR.
BLOQUE 12 OF.325 CIUDAD TUNAL

**Proveedores Mineros, más de 20 AÑOS
ofreciendo Soluciones Eléctricas al mercado.**

MINERÍA

INDUSTRIA

ENERGÍA

HIDROCARBUROS

CONSTRUCCIÓN



WWW.PROVEEDORESMINEROS.COM

WWW.POWERCONECTOR.COM