

TECHNICAL DATA SHEET

EVO™ High Voltage Cable Protection System

HV Connector Interfaces


SPECIALIST CONDUIT SYSTEMS



Connector interfaces for use with Amphenol Powerlok High Voltage connectors

Certifications / Standards:

(Refer to tables for certifications details)



Features & benefits:

- Supports connector Ingress Protection (IP) performance
- Isolates and reduces cable movement
- Provides cable-connector interface with high mechanical protection
- Provides connector to cable strain relief
- High pull-off strength - conduit corrugations sit tightly into joiner junctions.
- Enhanced abrasion and vibration protection
- External fit for unrestricted bore and quick assembly.
- Tamperproof, integrated clip system as standard
- Safe for use with 1000V AC and 1500V DC

Applications:

- For use with high voltage connectors
- Power Distribution Units (PDU)
- Motor Control Units (MCU)
- Invertors
- DC Drive Motors
- In-wheel Motors
- E-Axles
- High Voltage Battery Packs
- Hybrid Systems
- Static Power Systems
- Marine

Temperature range:

- Static applications: -40°C to +200°C
- Dynamic applications: -40°C to +160°C

UV Resistance:

- High

Material / Materials / Finishes:

- Polyamide (Nylon) PA46
- Orange (RAL2008)

Conforms to:

- CE marked to Low Voltage Directive 2014/35/EU
- RoHS Compliant to 2011/65/EU
- Conforms with end of life vehicle directive (ELV) EU200/53/EC

Fire Performance:

- Low Smoke
- Halogen free
- Self extinguishing
- UL94 V2 Rating

Degree of mechanical protection:

- High

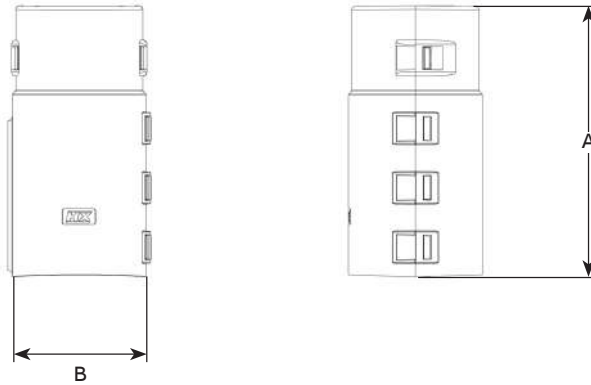
Chemical resistance:

- See datasheet [TDS000081](#)

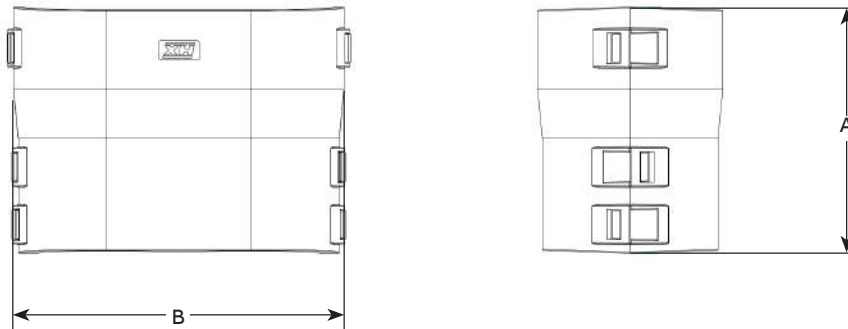
EVO™ High voltage connectors – Part numbers and dimensions



Part No.	Conduit size (NC)	Conduit size (NW)	Connector Series	Dimensions	
				A	B
CI25-PL300	25	22	Amphenol Powerlok 300 (1 Pos)	67.7	33.8
CI28-PL300	28	23	Amphenol Powerlok 300 (1 Pos)	68.5	33.8



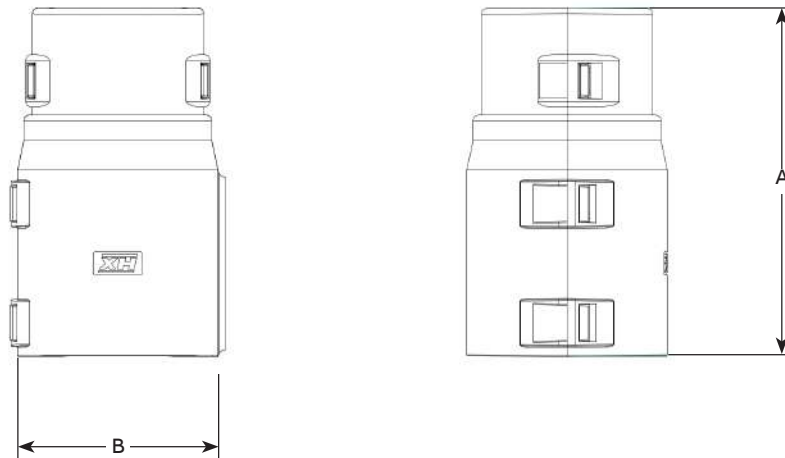
Part No.	Conduit size (NC)	Conduit size (NW)	Connector Series	Dimensions	
				A	B
CI25-PL282-PL300	25	22	Amphenol Powerlok 300 (2 Pos)	50.7	38.2
CI28-PL282-PL300	28	23	Amphenol Powerlok 300 (2 Pos)	50.7	38.2



EVO™ High voltage connectors – Part numbers and dimensions



Part No.	Conduit size (NC)	Conduit size (NW)	Connector Series	Dimensions	
				A	B
CI25-PL18-G2	25	22	Amphenol Powerlok 300 G2 (1 Pos)	59.5	34.2
CI28-PL18-G2	28	23	Amphenol Powerlok 300 G2 (1 Pos)	59.5	34.2



Part No.	Conduit size (NC)	Conduit size (NW)	Connector Series	Dimensions	
				A	B
CI25-PL182-G2	25	22	Amphenol Powerlok 300 G2 (2 Pos)	59.7	76.6
CI28-PL182-G2	28	23	Amphenol Powerlok 300 G2 (2 Pos)	59.7	76.6

