

HiPro High Voltage heavy duty connector 2+20 pole to connect UV lamps up to AC 4.5 kV and 30 A

Features

With its crimpable contacts, the HiPro plug-in connection generally offers the possibility of connecting different cable cross-sections, which increases the individual applicability of this electric module. This plug-in connection is a robust design that can be used for practically all UV lamps due to its technical data. It can be used for the plug-in connection of a UV module as well as for the high-voltage connection directly to the control cabinet containing the ballasts.

- Low safety risk due to recessed pins
- low damage-risk through conclusive integration in the module-framework
- inferior space required through parallel-order
- increased insulation voltage (test voltage DC 18 kV)
- easy assembly / disassembly; conductor is crimped with contact
- crimped contacts for conductors from 0.5 mm² to 4.0 mm², AWG 20 to AWG 12



025 10131 0000



025 00395 0000

Technical data HiPro High Voltage Connector		
Art. No.	Socket shell (cable end side)	025 00395 0000
	Mounting case	025 10131 0000
Poles	High voltage contacts	2
	Control contacts	10
Operating voltage	High voltage contacts	DC 18 kV (insulation test voltage) DC 6,5 kV / AC 4,5 kV (operating voltage).
	Control contacts	AC 250 V
Operating current	High voltage contacts	30A up to 60°C, 20 A at 100°C 13A at 110 °C
	Control contacts	10A at 20°C, ~ 8 A at 60°C
Conductance	High voltage contacts	< 5 mΩ
IP protection degree	IP 65 in plugged and locked condition	
Mechanical life time	approx. 500 matching cycles, connected without load	
Housing	heavy duty aluminum case	
Isolation body	Thermoplastics	
Contact material	copper alloy, surface silver and/or nickel plated	
Operating temperature range	-40°C to +125°C	
Cable connection	High voltage contacts and control contacts	crimp contacts
	Pre-connection contacts	high voltage contacts first (before control contacts)
According to	High voltage contacts	Operating volt. DC acc. VDE 0110 part 1
	Control contacts	DIN EN 60 664-1, DIN EN 61 984

When disconnecting the connector, the high voltage contacts contact last, thus it is possible to switch off the high voltage via the control contacts before the high voltage contacts disconnect.

The HiPro connectors 025 00395 0000 (grommet housing) and 025 10131 0000 (bulkhead mounting housing) are supplied loose and contain all plastic inserts and contacts.

HiPro High voltage connector with cable for high voltage and control signals in different lengths

In addition to the individual HiPro connectors, there are also ready-configured cables with HiPro connectors (socket shell). These cables are used especially for connecting UV modules with attached HiPro connectors. On one end of the cable is a HiPro socket shell with high voltage and control contacts (contacts female), the other end of the cable is without connectors (for terminal connection).

The cable includes:

- HiPro connector (female)
- 2 wire for lamp connection with 2.5mm², single shielded
- 1 wire gn/ye with 2.5mm², e.g. for PE of the UV module
- 10 pairs control wire (20 wire each 0,34mm²), in each case paired twisted and shielded together, for least possible interferences from the main wire and external influences.

The article is free of silicone.

For the electrical values, the specifications of the 23-core cable 022 52202 0000 (Hochspannungsleitung 3kV, geschirmt, silikonfrei, PMC 2x2,5 + 1x2,5 + 10x2x 0,34 mm², PVC, gelb) must be observed, see separate data sheet.

HiPro High voltage connector with cable for high voltage and control signals		
	Art. No.	Length in m
	025 00392 0001	1
	025 00392 0002	2
	025 00392 0003	2,5
	025 00392 0004	3
	025 00392 0005	4
	025 00392 0006	5
	025 00392 0007	7
	025 00392 0008	8
	025 00392 0009	9
	025 00392 0010	10
	025 00392 0015	15
	025 00392 0020	20
	025 00392 0030	30

Most important technical data of the cable		
Nominal voltage	2.50 mm ² (2x lamp)	maximum: 3,000 V RMS
	2.50 mm ² (1x PE)	maximum: 500 V
	0.34 mm ²	maximum: 300 V
Inside sheet (2,5CY)	PVC TM2 in accordance to EN 50525-1 VDE 0285-525-1, RAL 7001	
Outer casing	PVC in accordance to VDE 0285	
Outer dimensions	24.0 + 0.5 mm	
Outer casing color	yellow, RAL 1021	
Ambient temperatures	moving: -5° C to +70° C fixed laying: -30° C to +70° C	
Bending radius	flexible use: 15 x wire diameter	
Oil resistance	acc. to EN 60811-404	
	The detailed technical cable data can be found on the separate data sheet for cable art. no. 022 52202 0000. The cable is not suitable for use with drag chains.	