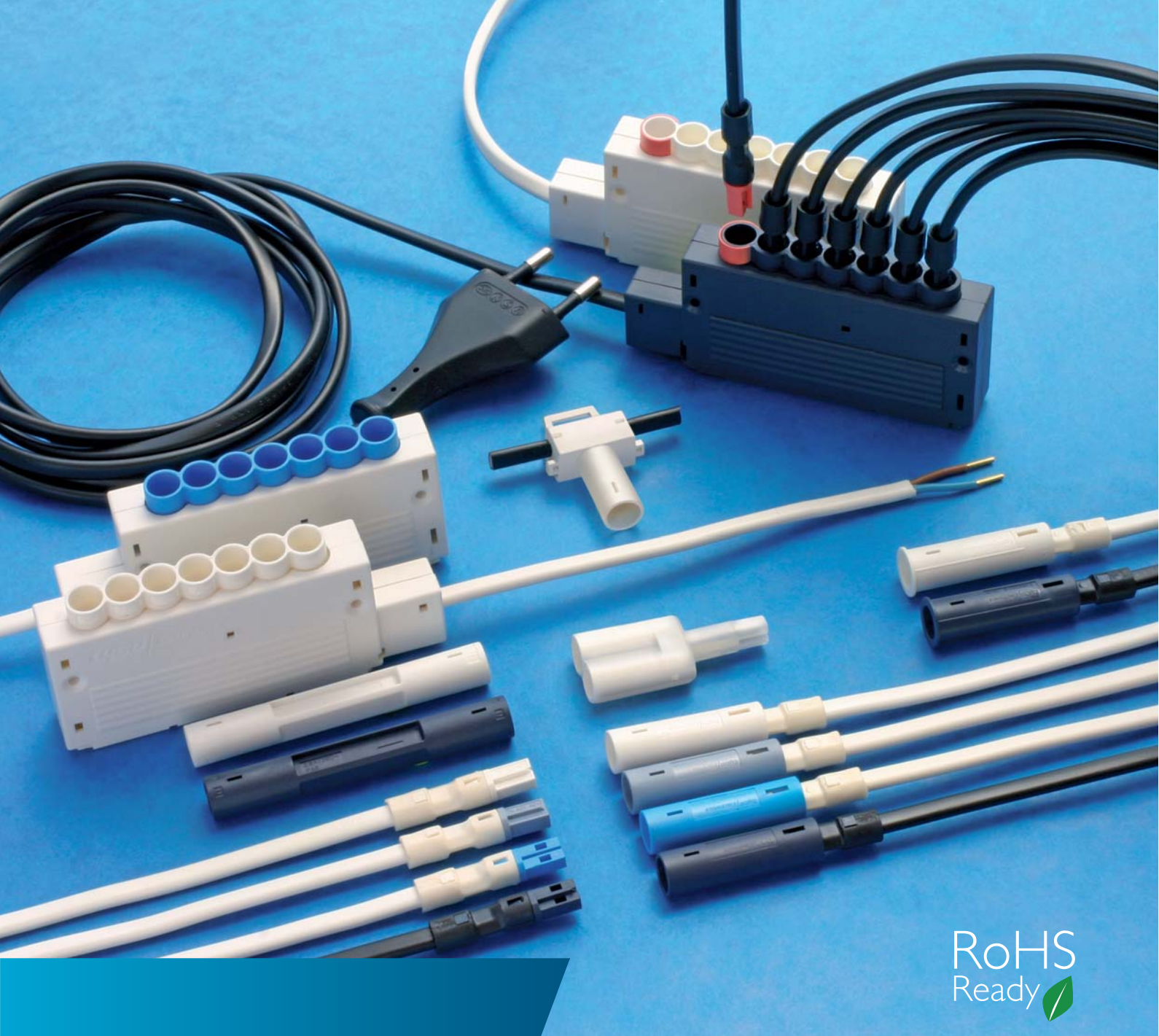




RoHS  
Ready 

## 7.5 mm MiniHVL connector system

## Technical Features

The new Tyco Electronics 7.5 mm Mini HVL Connector Series is designed according to the IEC 60320 standard for lighting industry applications; where size and easy interconnection are key requirements. It is installable in small fixtures into furniture, ceiling, wall and floors.

Applicable in power connection and coupling between lamps such as lighting wiring in offices; kitchen, bathroom, shop and household furniture; display cabinets and mountable lighting.

### Description

- Connector system available in wire-to-wire configuration.
- Outlet and Plug assemblies with two contact positions.
- Using widely known MQS contacts.
- 6 way distributor with additional switch feature.

### Applications

- General two pole appliance wiring system for household and similar purposes from low voltage up to 250V.
- Specifically designed for lighting industry applications where size is a key requirement, to get a power connection and coupling between lamps.
- Lighting wiring in office, kitchen, bathroom and shop furniture or household, mountable lighting (like fluorescent tubes and energy saving lamps).

### Key Features

- 7.5 mm outer diameter of plug to fit into 8 mm furniture holes.

- Several versions available: 250 VAC, polarized 250 VAC, 125 VAC, 42 VAC and 42 VDC.
- Ring clip for wire retention to meet pull test according IEC 60320.
- Coupling designed according IEC 60320.
- 6 way distributor:
  - Fast one stroke IDC termination (pre assembled contacts).
  - Switch version available (Having an additional 7<sup>th</sup> way that let switch the other ones).
  - Special coded red plug for external switch input.
  - Specific red code ring to identify the 7<sup>th</sup> switch input.
- Outlet bridge, Splitter, Panel Mount Outlet and Bus Bar Splitter to expand interconnection options.

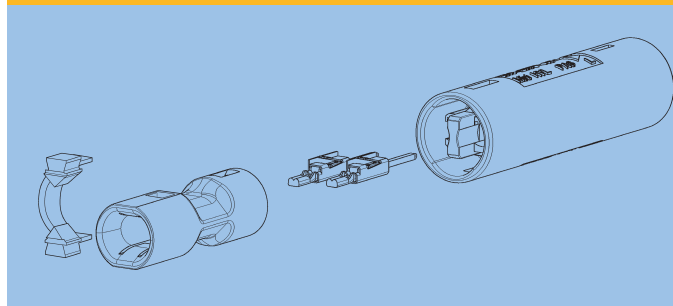
### Electrical

- Rated at 2.5 A 250 VAC (per IEC 60320), 6A 125 VAC, 7A 42 VAC and 7A 42 VDC with H03VVH2-F 2x0,75 mm<sup>2</sup> wires.
- Protection Class II.

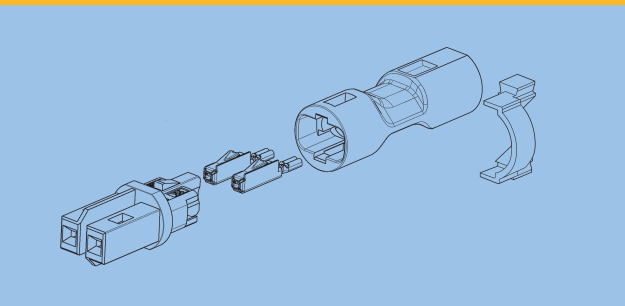
### Mechanical

- Highly reliable and widely used MQS contacts.
- Wire termination: Crimp contacts for Plug & Outlet and IDC for distributor.
- Operating temperature: till +60° C for H03VVH2-F 2x0.75 mm<sup>2</sup> wires.
- Durability: 300 cycles.

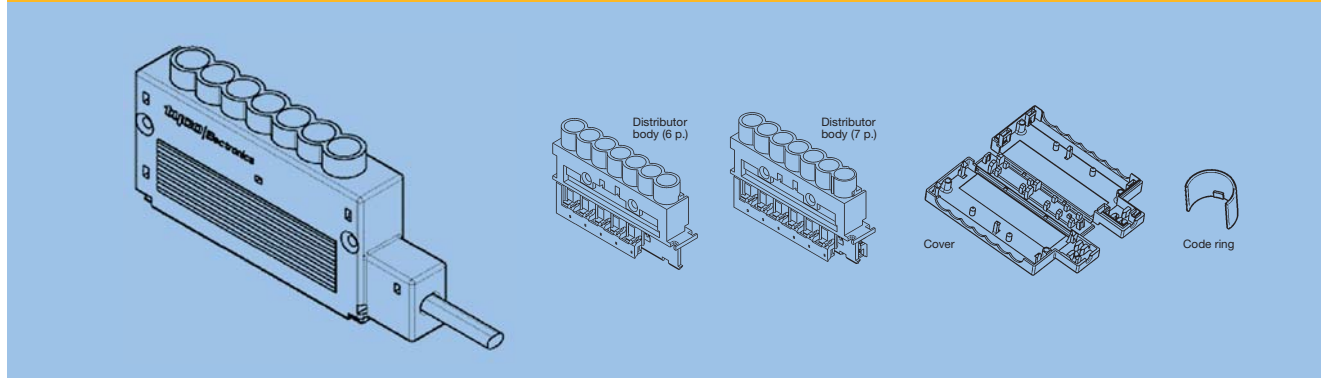
### Outlet assembly



### Plug assembly



### Distributor assembly



## Product Offering

|                                               |      | PN               |           |           |             |           |             |                |            |             |           |
|-----------------------------------------------|------|------------------|-----------|-----------|-------------|-----------|-------------|----------------|------------|-------------|-----------|
| Coupling                                      |      | HV 250 VAC       |           |           |             |           |             | Switch version | HV 125 VAC | LV 42 VAC   | LV 42 VDC |
| Keying                                        |      | HV-1             |           | HV-4      |             | HV-5      |             | HV-2           | HV-3       | LV-1        | LV-2      |
| Housing colour                                |      | White            | Black     | White     | Black       | White     | Black       | Red            | Blue       | Light grey  | Yellow    |
| Plug housing (for socket contacts)            | Bulk | 1740259-1        | 1740259-2 | 1740825-1 | 1740825-2   | 1740825-3 | 1740825-4   | 1740259-5 *    | 1740259-6  | 1740449-1   | 1740449-2 |
| Outlet housing (for pin contacts)             | Bulk | 1740262-1        | 1740262-2 | 1740826-1 | 1740826-2   | 1740826-3 | 1740826-4   | -              | 1740262-6  | 1740451-1   | 1740451-2 |
| Tube (To be used in all keying versions)      | Bulk | 1740260-1        | 1740260-2 |           |             |           |             |                |            |             |           |
| Ring clip (To be used in all keying versions) | Bulk | 1740261-1        | 1740261-2 |           |             |           |             |                |            |             |           |
|                                               |      | Plain (unplated) |           | Reel      | Loose piece |           | Gold plated |                | Reel       | Loose piece |           |
| Pin contact                                   | Bulk |                  |           | 1740335-1 | 1740335-3   |           |             |                | 1740335-7  | 1740335-8   |           |
| Socket contact                                | Bulk |                  |           | 1740336-1 | 1740336-3   |           |             |                | 1740336-7  | 1740336-8   |           |

\* To be used with 7 way distributor

| Distributor                                |    | HV 250 VAC |           |           |           |     |  |              | HV 125 VAC | LV 42 VAC  | LV 42 VDC   |
|--------------------------------------------|----|------------|-----------|-----------|-----------|-----|--|--------------|------------|------------|-------------|
| Keying                                     |    | HV-1       |           |           |           |     |  |              | HV-3       | LV-1       | LV-2        |
| Housing colour                             |    | White      | Black     | White     | Black     | Red |  |              | Blue       | Light grey | Yellow      |
| Mini HVL 7.5 mm System 6 way body          | pc | 1740317-1  | 1740317-3 |           |           |     |  |              | 1740317-5  | 1740317-7  | 1740317-9   |
| Mini HVL 7.5 mm System 7 way body (switch) | pc | 1740317-2  | 1740317-4 |           |           |     |  |              | 1740317-6  | 1740317-8  | 1-1740317-1 |
| Mini HVL 7.5 mm System Cover               | pc |            |           | 1740315-1 | 1740315-2 |     |  |              |            |            |             |
| Mini HVL 7.5 mm System Code Ring           | pc |            |           |           |           |     |  | 1740316-1 ** |            |            |             |

\*\* To be used only in 7 way body assemblies.

| Tooling                                          | PN          | Tooling                               | PN          |
|--------------------------------------------------|-------------|---------------------------------------|-------------|
| Fixed head crimping hand tool (complete)         | 2-1579004-2 | Hand gripper (for ring clip)          | 3-1579002-1 |
| Interchangeable head crimping hand tool - Handle | 2-1579005-1 | Extraction tool                       | 1-1579007-4 |
| Head for interchangeable head crimping hand tool | 3-1579021-8 | IDC tool for distributor <sup>2</sup> | 6-528441-3  |
| Mini Applicator <sup>1</sup>                     | 9-541803-2  |                                       |             |

1: To be used with AMP 3K/40 Terminator machine 1725950-6.

2: To be used with IDC Bench Press 578016-5

**Note:** crimping tools make two crimps in one cycle.

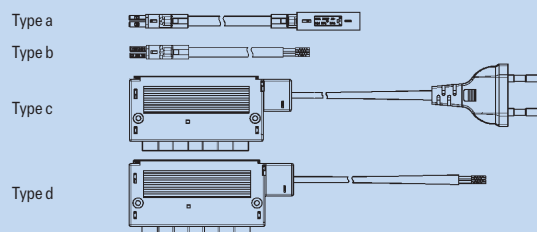
| Accessories        |  |  | Key        | PN               |          | Key      | PN    |          | Key      | PN    |          |
|--------------------|--|--|------------|------------------|----------|----------|-------|----------|----------|-------|----------|
|                    |  |  |            | Color            |          |          | Color |          |          | Color |          |
|                    |  |  | Voltage    | White            | Black    |          | White | Black    |          | White | Black    |
| Outlet Bridge      |  |  | HV 250 VAC | HV4-HV5          | 293225-1 | 293225-2 | -     | -        | -        | -     | -        |
| Panel Mount Outlet |  |  | HV 250 VAC | HV-4             | 293224-1 | 293224-2 | HV-5  | 293224-5 | 293224-6 | HV-2  | 293224-3 |
| Splitter           |  |  | HV 250 VAC | HV-4/HV-4 & HV-4 | 293234-1 | 293234-2 | -     | -        | -        | -     | -        |
| Splitter (switch)  |  |  | HV 250 VAC | HV-4/HV-4 & HV-2 | 293235-1 | 293235-2 | -     | -        | -        | -     | -        |
| Bus bar w/fix hook |  |  | HV 250 VAC | HV-1             | 293300-1 | 293300-2 | -     | -        | -        | -     | -        |
| Bus bar            |  |  | HV 250 VAC | HV-1             | 293300-3 | 293300-4 | -     | -        | -        | -     | -        |



| Cable Assemblies                                |  | PN       |        |            |        |      |
|-------------------------------------------------|--|----------|--------|------------|--------|------|
|                                                 |  | Black    | Length | White      | Length | Type |
| Outlet (HV-1) - Plug (HV-1)                     |  | 960550-1 | 2,0 m  | 1-960550-1 | 0,2 m  | a    |
| Plug (HV-1) - Free end cable <sup>3</sup>       |  | 960551-2 | 2,0 m  | 1-960551-2 | 0,2 m  | b    |
| Plug (HV-2) - Free end cable <sup>3</sup>       |  | 960552-3 | 2,0 m  | 1-960552-1 | 0,2 m  | b    |
| 6 way distributor - Plug (Euro style)           |  | 960555-1 | 2,0 m  | 1-960555-1 | 2,0 m  | c    |
| 6 way distributor - Free end cable <sup>3</sup> |  | 960556-2 | 0,3 m  | 1-960556-2 | 0,3 m  | d    |
| 7 way distributor - Plug (Euro style)           |  | 960557-1 | 2,0 m  | 1-960557-1 | 2,0 m  | c    |
| 7 way distributor - Free end cable <sup>3</sup> |  | 960558-2 | 0,3 m  | 1-960558-2 | 0,3 m  | d    |

3: Free end wires terminated with ferrules.

Other lengths and configurations upon request (volumes may be applicable).



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