

H-System Custom Cable

CAB-DVM-10-S37I20-DX-01010

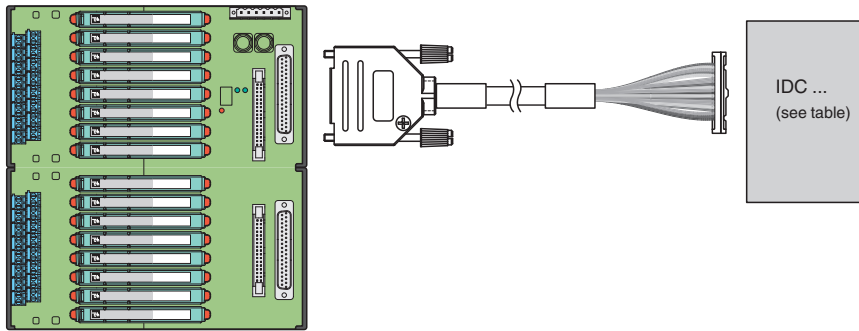


- Connects the IDC connector on the Emerson baseplate to the 37-pin Sub-D connector on the H-System termination board
- System cable for Emerson DeltaV M-series and DeltaV S-series
- 32-channel
- 10 m cable length

Cordset with IDC socket for the Emerson baseplate and 37-pin Sub-D socket for the H-System termination board, PVC cable



Connection



Technical Data

| Electrical specifications | | |
|---------------------------|-------|---|
| Rated voltage | U_r | 30 V |
| Rated current | I_r | max. 1 A |
| Lead resistance | | < 70 m Ω / m |
| Cable capacitance | | wire/wire: approx. 120 pF / m wire/shield: approx. 160 pF / m |
| Cable inductance | | approx. 0.65 μ H / m |
| Standard conformity | | |
| Flammability | | IEC 60332-1-2 , flame-resistant |
| Ambient conditions | | |
| Ambient temperature | | -20 ... 60 °C (-4 ... 140 °F) , fixed installation |
| Storage temperature | | -40 ... 70 °C (-40 ... 158 °F) |
| Mechanical specifications | | |
| Connection | | Sub-D socket , 37 pins/37 pins IDC socket, 16-pin, 20-pin and 24-pin |
| Material | | |
| Socket | | Sub-D socket : Zinc die cast, nickel plated |
| Sheathing | | PVC |
| Core insulation | | PVC |
| Cable | | LIYCY |

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Technical Data

| | |
|------------------------|--|
| Diameter | 18 cores: 7.3 mm (0.29 inch) |
| Bending radius | min. 6 x external diameter, fixed installation |
| Color | grey |
| Cores | 18 x 0.14 mm ² |
| Conductor construction | stranded wire , fine-strand |
| Shield | tinned copper braiding |
| Mass | approx. 200 g + 104 g /m |
| Cable length | 10 m |

Configuration

| Module switch settings | | | Card software settings | | |
|--|---------------|-------------|---|------------------------------------|----------------|
| Type | DIP switch | Position | Type | Parameter | Setting |
| HiC2025 (AI), HiC2025A (AI) Current sink 4 mA to 20 mA | S1 | OFF | - | - | - |
| | S2 | ON | | | |
| | S3 | OFF | | | |
| | S4 | OFF | | | |
| HiC2031 (AO) | not available | | - | - | - |
| <ul style="list-style-type: none"> Mode of operation: open – energized close – de-energized Line fault detection: enabled HiC2821 (DI), HiC2841 (DI) | S1 | I | <ul style="list-style-type: none"> DeltaV M-series 32-channel DI Series 2 Plus card DeltaV S-series 32-channel DI Plus card | T1_FAULT_DETECT T2_FAULT_DETECT | False False |
| | S2 | I | | | |
| | S3 | no function | | | |
| | S4 | no function | | | |
| <ul style="list-style-type: none"> Mode of operation: normal Input line fault detection: enabled HiC2831 (DI) | S1 | II | <ul style="list-style-type: none"> DeltaV M-series 8-channel DI Series 2 card DeltaV S-series 8-channel DI card | LINEFAULT_DETECT | True |
| | S2 | I | | | |
| | S3 | no function | | | |
| | S4 | no function | | | |
| <ul style="list-style-type: none"> Bus powered Control input: logic signal Line fault detection: enabled Filter: disabled HiC2873 (DO) | S1 | ON | <ul style="list-style-type: none"> DeltaV M-series 8-channel DO Series 2 card DeltaV S-series 8-channel DO card | LINEFAULT_DETECT | False |
| | S2 | OFF | | | |
| | S3 | ON | | | |
| | S4 | OFF | | | |
| | S5 | ON | <ul style="list-style-type: none"> DeltaV M-series 32-channel DO Series 2 Plus card DeltaV S-series 32-channel DO Plus card | T1_FAULT_DETECT T2_FAULT_DETECT | False False |
| | S6 | OFF | | | |
| | S7 | ON | | | |
| | S8 | ON | | | |

Product Versions

| Emerson | | Pepperl+Fuchs | |
|--------------------------------------|-------------------------|-----------------------|----------------------------|
| DeltaV M-Series | | Termination board | Cable |
| Card | Type | Type | Type |
| Analog input | | | |
| 8-channel AI (4 mA to 20 mA) | Series 2 simplex | HiCTB08-SDC-44C-SC-RA | CAB-DVM-**-S37I16-MX-01000 |
| Analog output | | | |
| 8-channel AO (4 mA to 20 mA) | Series 2 simplex | HiCTB08-SDC-44C-SC-RA | CAB-DVM-**-S37I16-MX-01000 |
| Digital inputs | | | |
| 8-channel DI (24 V DC, dry contact) | Series 2 simplex | HiCTB08-SDC-44C-SC-RA | CAB-DVM-**-S37I16-MX-01000 |
| 32-channel DI (24 V DC, dry contact) | Series 2 simplex | HiCTB32-SDC-24C-SC-RA | CAB-DVM-**-S37I20-DX-01010 |
| 32-channel DI (24 V DC, dry contact) | Series 2 Plus redundant | HiCTB32-SDC-24C-SC-RA | CAB-DVM-**-S37I20-DI-01010 |
| Digital outputs | | | |
| 8-channel DO (24 V DC, high side) | Series 2 simplex | HiCTB08-SDC-44C-SC-RA | CAB-DVM-**-S37I16-DO-01000 |
| 32-channel DO (24 V DC, high side) | Series 2 simplex | HiCTB32-SDC-24A-SC-RA | CAB-DVM-**-S37I20-DX-01010 |
| 32-channel DO (24 V DC, high side) | Series 2 Plus redundant | HiCTB32-SDC-24A-SC-RA | CAB-DVM-**-S37I20-DX-01010 |

| Emerson | | Pepperl+Fuchs | |
|-------------------------------|----------------|-----------------------|----------------------------|
| DeltaV S-Series | | Termination board | Cable |
| Card | Type | Type | Type |
| Analog inputs | | | |
| 8-channel AI (4 mA to 20 mA) | Simplex | HiCTB08-SDC-44C-SC-RA | CAB-DVM-**-S37I16-MX-01000 |
| 16-channel AI (4 mA to 20 mA) | Plus simplex | HiCTB16-SDC-44C-SC-RA | CAB-DVM-**-S37I24-AX-01000 |
| 16-channel AI (4 mA to 20 mA) | Plus redundant | HiCTB16-SDC-44C-SC-RA | CAB-DVM-**-S37I24-AX-01000 |
| Analog outputs | | | |

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Product Versions

| Emerson | | Pepperl+Fuchs | |
|--------------------------------------|----------------|-----------------------|----------------------------|
| DeltaV S-Series | | Termination board | Cable |
| Card | Type | Type | Type |
| 8-channel AO (4 mA to 20 mA) | Simplex | HiCTB08-SDC-44C-SC-RA | CAB-DVM-**-S37I16-MX-01000 |
| 16-channel AO (4 mA to 20 mA) | Plus simplex | HiCTB16-SDC-44C-SC-RA | CAB-DVM-**-S37I24-AX-01000 |
| 16-channel AO (4 mA to 20 mA) | Plus redundant | HiCTB16-SDC-44C-SC-RA | CAB-DVM-**-S37I24-AX-01000 |
| Digital inputs | | | |
| 8-channel DI (NAMUR) | Simplex | HiCTB08-SDC-44C-SC-RA | CAB-DVM-**-S37I16-MX-01000 |
| 32-channel DI (24 V DC, dry contact) | Simplex | HiCTB32-SDC-24C-SC-RA | CAB-DVM-**-S37I20-DX-01010 |
| 32-channel DI (24 V DC, dry contact) | Plus redundant | HiCTB32-SDC-24C-SC-RA | CAB-DVM-**-S37I20-DI-01010 |
| Digital outputs | | | |
| 8-channel DO (24 V DC, high side) | Simplex | HiCTB08-SDC-44C-SC-RA | CAB-DVM-**-S37I16-DO-01000 |
| 32-channel DO (24 V DC, high side) | Simplex | HiCTB32-SDC-24A-SC-RA | CAB-DVM-**-S37I20-DX-01010 |
| 32-channel DO (24 V DC, high side) | Plus redundant | HiCTB32-SDC-24A-SC-RA | CAB-DVM-**-S37I20-DX-01010 |

The *-marked letters of the type code are placeholders for the cable length (m). Available cable lengths on request.