

# H-System Custom Cable

## CAB-DVM-25-S37I16-MX-01000

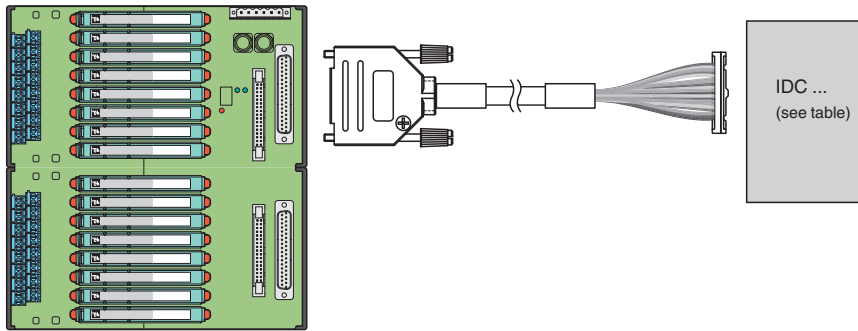


- Connects the IDC connector on the Emerson baseplate to the 37-pin Sub-D connector on the H-System termination board
- System cable for Emerson DeltaV M-series and DeltaV S-series
- 8-channel
- 25 m cable length

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 $\Omega$ / m
Cable capacitance		wire/wire: approx. 120 pF / m wire/shield: approx. 160 pF / m
Cable inductance		approx. 0.65 $\mu$ 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 <sup>2</sup>
Conductor construction	stranded wire , fine-strand
Shield	tinned copper braiding
Mass	approx. 200 g + 104 g /m
Cable length	25 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"> <li>Mode of operation: open – energized close – de-energized</li> <li>Line fault detection: enabled</li> </ul> HiC2821 (DI), HiC2841 (DI)	S1	I	<ul style="list-style-type: none"> <li>DeltaV M-series 32-channel DI Series 2 Plus card</li> <li>DeltaV S-series 32-channel DI Plus card</li> </ul>	T1_FAULT_DETECT T2_FAULT_DETECT	False False
	S2	I			
	S3	no function			
	S4	no function			
<ul style="list-style-type: none"> <li>Mode of operation: normal</li> <li>Input line fault detection: enabled</li> </ul> HiC2831 (DI)	S1	II	<ul style="list-style-type: none"> <li>DeltaV M-series 8-channel DI Series 2 card</li> <li>DeltaV S-series 8-channel DI card</li> </ul>	LINEFAULT_DETECT	True
	S2	I			
	S3	no function			
	S4	no function			
<ul style="list-style-type: none"> <li>Bus powered</li> <li>Control input: logic signal</li> <li>Line fault detection: enabled</li> <li>Filter: disabled</li> </ul> HiC2873 (DO)	S1	ON	<ul style="list-style-type: none"> <li>DeltaV M-series 8-channel DO Series 2 card</li> <li>DeltaV S-series 8-channel DO card</li> </ul>	LINEFAULT_DETECT	False
	S2	OFF			
	S3	ON			
	S4	OFF			
	S5	ON	<ul style="list-style-type: none"> <li>DeltaV M-series 32-channel DO Series 2 Plus card</li> <li>DeltaV S-series 32-channel DO Plus card</li> </ul>	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
<b>Analog input</b>			
8-channel AI (4 mA to 20 mA)	Series 2 simplex	HiCTB08-SDC-44C-SC-RA	CAB-DVM-**-S37I16-MX-01000
<b>Analog output</b>			
8-channel AO (4 mA to 20 mA)	Series 2 simplex	HiCTB08-SDC-44C-SC-RA	CAB-DVM-**-S37I16-MX-01000
<b>Digital inputs</b>			
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
<b>Digital outputs</b>			
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
<b>Analog inputs</b>			
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
<b>Analog outputs</b>			

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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
<b>Digital inputs</b>			
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
<b>Digital outputs</b>			
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.