

# Murphy Industrial Harnesses

## MurphyLink® Series

The MurphyLink Series ML Panels are universal to all engines. The adaptation to the engines will be through the MIH Harness, which is built to the specifications of each engine manufacturer and customer. When requesting the MIH Harness, specific information will be obtained so that the correct harness may be built for your engine.

### Features

- Connect any MurphyLink Panel to major engine manufacturers' engines
- Customizable per specific customer application and requirement
- Standard 21-pin Deutsch connector interface
- Manufactured in the USA
- Built to strict quality standards for long-term reliability



### How to Order

Part Number	Model	Description
<b>Caterpillar Engines</b>		
32000137	<b>MIH-CA-40P-T2-ADEM3-6</b>	Tier 2, 40 pin ECU connection
32000138	<b>MIH-CA-64P-T3-A4E2-6</b>	Tier 3, C4.4 & 6.6, 64 pin ECU connection
32000171	<b>MIH-CA-70P-T3-A4-6</b>	Tier 3, All C series except 4.4 and 6.6
32000160	<b>MIH-CA-70P-IT4-A4E4-6</b>	iT4, CAT C18-32
32000148	<b>MIH-CA-70P-IT4-A4E4-6-12 VDC</b>	iT4, 12 VDC, C9.3, C13, C15, C18 (<750 hp)
32000150	<b>MIH-CA-70P-IT4-A4E4-6-24 VDC</b>	iT4, 24 VDC, C9.3, C13, C15, C18 (<750 hp)
32000159	<b>MIH-CA-70P-IT4-C4.4-12 VDC</b>	iT4, CAT4.4
32000151	<b>MIH-CA-70P-IT4-C7.1-6-12 VDC</b>	iT4, CAT7.1
32000170	<b>MIH-PK-94P-IT4/T4-C3.4/P854F-E34T</b>	IT4/FT4, C3.4 without DEF/SCR (Supplied with IOPU ADAPTER (21 pos to 12 pos))
32000155	<b>MIH-CA-86P-T4-C4.4-6</b>	FT4, C4.4 (to be used only on engine without customer interface connector, connects directly to ECU)
32000189	<b>MIH-PK/CA-70P-T4F-C4.4-W/CIC-6</b>	FT4, C4.4, To 70 pin customer interface connector
32000188	<b>MIH-CA-70P-FT4-C7.1-6</b>	FT4, C7.1, To 70 pin customer interface connector
32000167	<b>MIH-CA-70P-T4-C9.3-C18, 24V</b>	FT4, 24 Volt Only, C9.3-18
32000215	<b>MIH-PK/CA-58P-FT4-404FE/C2.2</b>	FT4, C2.2-Engine harness for engine without ENG MFG Umbilical harnesses (connects directly to ECU)
32000224	<b>MIH-PK/CA-94P-FT4-C3.4/P854F</b>	FT4/Stage V, C3.4 with DEF/SCR

## How to Order, cont.

<b>Caterpillar Engines (continued)</b>		
32000202	<b>MIH-CA-MECH-C2.2-15</b>	Mechanical, C2.2 engine. Works with only ML1000, ML2000 & TEC 10 (Check with engineering)
32000222	<b>MIH-CA-MECH-C4.4,WIRE HARNESS</b>	Mechanical, C2.2 engine. Works with only ML1000, ML2000 & TEC 10 (Check with engineering)
32000227	<b>MIH-CAT-70P-T4F-C9.3B,24V</b>	FT4, 24VDC, C9.3B
32000225	<b>MIH-CA-70P-T4F-C9.3-C18,12V</b>	FT4, 12 VDC, C9.3-18
32000190	<b>MIH to IOPU Jumper Harness</b>	MIH to IOPU Jumper Harness (21 pos to 12 pos connector)
<b>Perkins Engines</b>		
32000138	<b>MIH-CA-64P-T3-A4E2-6</b>	Tier 3, 1204 & 1206, 64 pin ECU connection
32000159	<b>MIH-CA-70P-IT4-C4.4-12 VDC</b>	iT4, 1204
32000151	<b>MIH-CA-70P-IT4-C7.1-6-12 VDC</b>	iT4, 1206
32000155	<b>MIH-CA-86P-T4-C4.4-6</b>	FT4, 1204 (to be used only on engine without customer interface connector, connects directly to ECU)
32000189	<b>MIH-PK/CA-70P-T4F-C4.4-W/CIC-6</b>	FT4, 1204, To 70 pin customer interface connector
32000188	<b>MIH-CA-70P-FT4-C7.1-6</b>	FT4, 1206, To 70 pin customer interface connector
32000170	<b>MIH-PK-94P-IT4/T4-C3.4/P854F-E34T</b>	IT4/FT4 P854F-E34T without DEF/SCR (Supplied with IOPU adapter (21 pos to 12 pos))
32000190	<b>MIH to IOPU Jumper Harness</b>	MIH to IOPU Jumper Harness
<b>Cummins Engines</b>		
32000149	<b>MIH-CU-50P-T2-CM570-12</b>	Tier 2, QSM/QSX
32000134	<b>MIH-CU-50P-T2-CM570-6</b>	Tier 2, QSM/QSX
32000195	<b>MIH-CU-60P-T3-CM2150C-6</b>	Tier 3, QSB 3.3
32000147	<b>MIH-CU-50P-T3-CM850-12</b>	Tier 3, QSB, QSC, QSL
32000152	<b>MIH-CU-60P-IT4-CM2250-6</b>	Tier 3, QSB6.7, QSL9, QSL11.9, QSL15
<b>Detroit Diesel Engines</b>		
32000168	<b>MIH-DD-30P-T3-DDECIII/DDECIV-6</b>	Tier 3, DDEC III/IV ECM
32000139	<b>MIH-DD-68P-T3-DDECV-6</b>	Tier 3, 50/60 Series, DDEC V ECM
<b>Doosan Engines</b>		
32000197	<b>MIH-DO-56P-T4F-D18/D24</b>	FT4, D18/D24 Engines (for Delphi ECU)
32000173	<b>MIH-DO-56P-T4F-D34-6</b>	FT4, D34 LHP Engines (for Delphi ECU)
32000201	<b>MIH-JCB-62P-T3-DCM3.3-6,</b>	FT4, D34 SCR Engines (for Delphi ECU)
32000223	<b>HARNESS, W/PV380-D10-4800</b>	D10-4800 kit Supplied with PV380, ON/OFF switch, engine harness, ECU bracket, relays
32000220	<b>HARNESS, W/PV380-D10-4500</b>	D10-4500 kit Supplied with PV380, ON/OFF switch, engine harness, ECU bracket, relays
<b>JCB Engines</b>		
32000196	<b>MIH-JCB-29P-FT4-IPU</b>	FT4 Industrial Power Unit Engines
32000154	<b>MIH-JCB-62P-T4-DCM3.3-6</b>	iT4 and FT4
32090037	<b>MIH-JCB-62P-T4-DCM3.3-6</b>	Tier 3 JCB engine harness
<b>PSI Engines</b>		
32000194	<b>MIH-PSI-16P-GAS-4</b>	NG, GM engine with EControls ECU

## How to Order, cont.

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<b>Scania Engines</b>		
32000132	<b>MIH-SCANIA-8P-FT4-EMS-XPI-6</b>	FT4, 24VDC, Scania DC-9/DC-13/DC-16
<b>Volvo Engines</b>		
32000200	<b>MIH-VO-8P-T4-6</b>	FT4, Volvo engine
<b>WeiChai Engines</b>		
32000229	<b>MIH-WEICHA1-16P-FT4-10'-WP4-13</b>	FT4, WP4/WP6/WP10/WP13
<b>FPT Engines</b>		
32000200	<b>MIH-VO-8P-T4-6</b>	FT4, Volvo engine
32000216	<b>MIH-FPT-96P-FT4-6.7-6-12V</b>	FT4, 12V (check with Engineering)
<b>Hatz Engines</b>		
32000198	<b>MIH-HATZ-32P-FT4-4H50-20, W/ TSC1 only</b>	FT4, This harness works only with panels/controllers that can perform throttle over CAN (TSC1)
<b>All Engines - Extension Harnesses</b>		
78001035	<b>MIH, Extension</b>	Harness, 6-feet long
78000294	<b>MIH, Extension</b>	Harness, 12-feet long
78000293	<b>MIH, Extension</b>	Harness, 20-feet long