

ME4 Standard Squid Cable Assembly

The majority of the signals and features of the BreadCrumb® ME4 can be accessed through the 26-pin Amphenol connector on the enclosure, which interfaces to the optional ME4 squid cable assembly to provide access to input power, Ethernet, and USB ports of the device.



ME4 Squid Cable Features

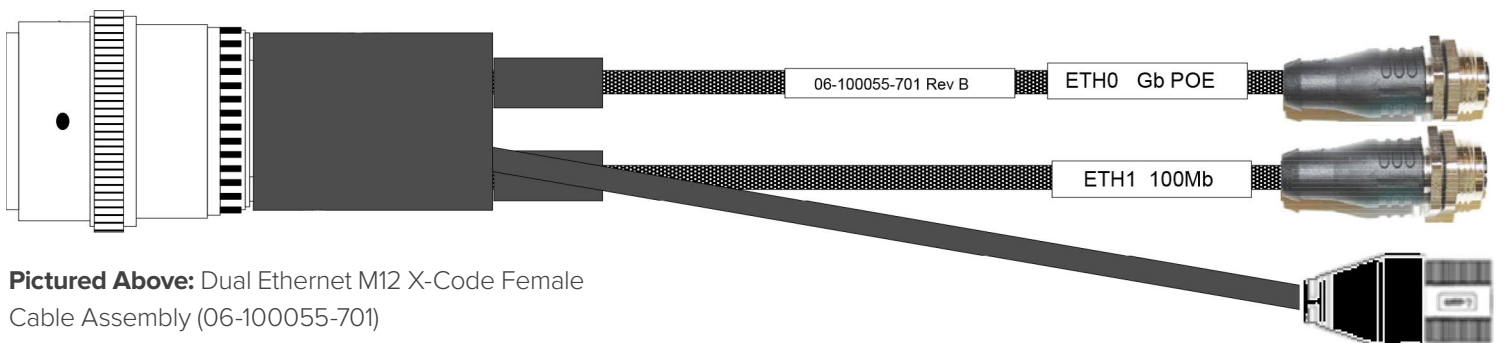
- Provides 2 standard RJ-45 Ethernet connectors
- Includes 1 USB port
- Fully sealed IP67 (6: Dust-tight, 7: Waterproof) design
- LTW watertight connections
- RoHS and non-RoHS options available

ME4 Squid Cable Models

Rajant Part Number	Description
06-100055-603	2Eth (1PoE), USB RoHS (ME4)
06-100055-701	Dual Ethernet M12 X-Code Female, (1) USB

26-Pin Amphenol Connector

The 26-pin Amphenol connector provides an interface for external power, Ethernet, and USB.

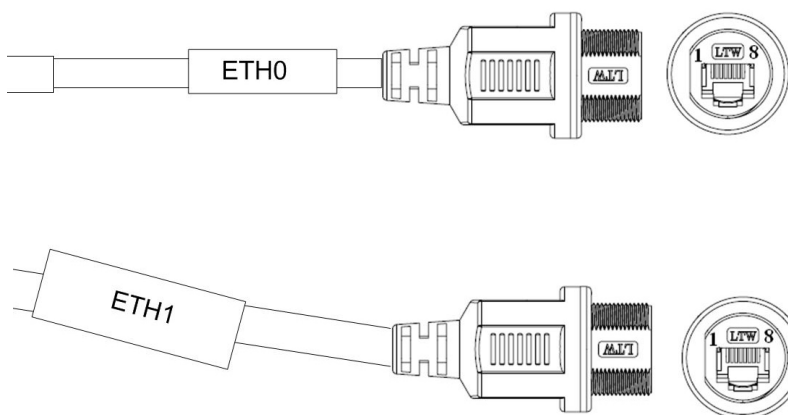


Pictured Above: Dual Ethernet M12 X-Code Female Cable Assembly (06-100055-701)

Ethernet Connectors

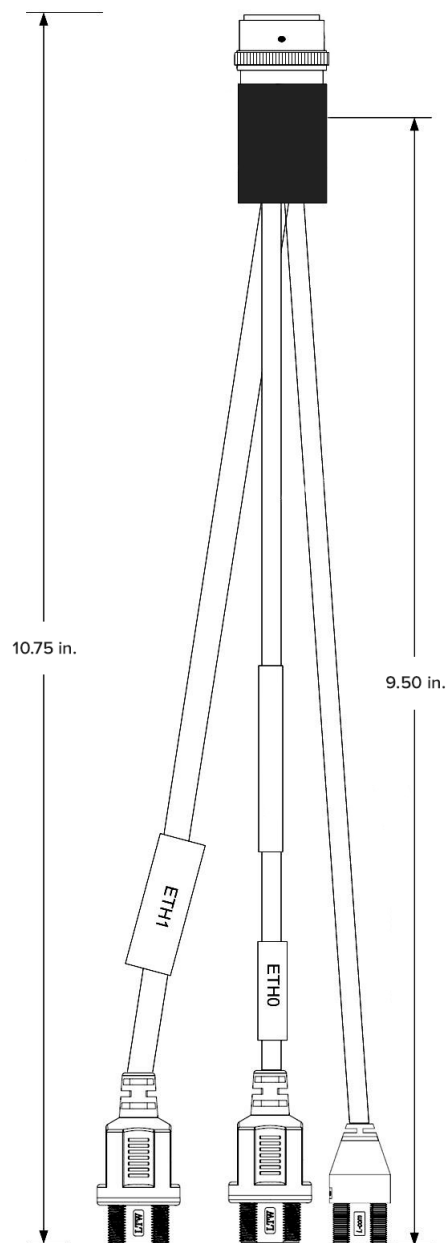
The optional ME4 cable assembly plugs into the 26-pin Amphenol connector and provides two standard RJ-45 Ethernet connectors for easy access to the ME4 Ethernet ports. The first Ethernet port (ETH0) on the BreadCrumb ME4 supports 10 Base-T, 100 Base-TX or 1000 Base-T configuration. The second Ethernet port (ETH1) supports 10 Base-T, or 100 Base-TX configuration.

The ETH0 port, when accessed through an ME4 Cable Assembly, also supports Passive Power over Ethernet (Passive PoE), and therefore acts as a dual function Ethernet and DC power input port for the BreadCrumb ME4. An external inline injector is used to merge DC power for the BreadCrumb ME4 with data from a LAN port or a wired client.



ETH0
 PIN1: DA+ POE V+
 PIN2: DA- POE V+
 PIN3: DB+ POE V-
 PIN4: DC+ POE V+
 PIN5: DC- POE V+
 PIN6: DB- POE V-
 PIN7: DD+ POE V-
 PIN8: DD- POE V-

ETH1
 PIN1: DA+
 PIN2: DA-
 PIN3: DB+
 PIN6: DB-



USB Port

The cable assembly also provides access to the ME4 USB port, which is compliant with Enhanced Host Controller Interface (EHCI) and USB Transceiver 2.0 Macrocell Interface (UTMI+) Level 2 specifications. The power switch for the port includes over current protection, thermal protection, in-rush current limiting, and hot-plug noise filtering.

The USB port can be used to perform BreadCrumb firmware upgrades and USB-based zeroize. It can also interface to an optional GPS receiver accessory available from Rajant.

