

Gigabit Ethernet Cable Assemblies for GigE Vision



GigE Vision™ is an interface standard for machine visions, introduced by the Automated Imaging Association (AIA), using Gigabit Ethernet for high-speed transmission of camera images. This category offers a full lineup of cables and plugs with noise-proof and sliding-resistant properties, suitable for FA environment.

Usage

Connecting network cameras for FA devices to PC

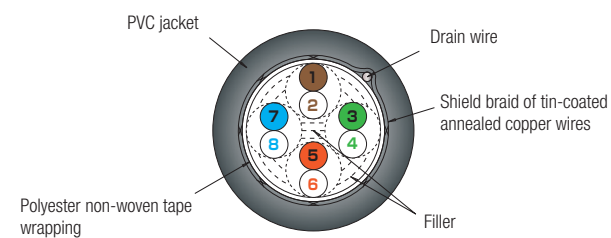
Features

- Supporting high-speed transmission of camera data for FA (GigE Vision™)
- Using a jacket material with excellent oil resistance
- Designed for mechanical strengths such as flex resistance, sliding resistance and twist resistance.
- The lineup includes a range of plug formats that users can select according to the space for camera installation.
- These cables are UL compliant and have cleared the VW-1 test for flame resistance.
- These cables are RoHS Directive compliant.
- Please contact us for custom options.

Structure and performance

| Item | Standard type | |
|-------------------------------|--------------------------------------|-------------------|
| Signal conductor size (AWG) | 26AWG (30/0.08 annealed copper wire) | |
| External jacket diameter (mm) | 6.7 | |
| Voltage / temperature rating | 30V/80°C | |
| Characteristic impedance | 1-100MHz | 100±15 |
| Propagation delay (ps/m) | 1-100MHz | No more than 555 |
| Within-pair skew (ps/m) | 1-100MHz | No more than 50 |
| Attenuation (dB/40m) | 1MHz | No more than 2.0 |
| | 16MHz | No more than 8.2 |
| | 100MHz | No more than 22.0 |
| Near-end crosstalk (dB/40m) | 1MHz | No more than 65.3 |
| | 16MHz | No more than 47.3 |
| | 100MHz | No more than 35.3 |
| Transmission distance (m) | No more than 40 | |
| Flame resistance | VW-1 | |

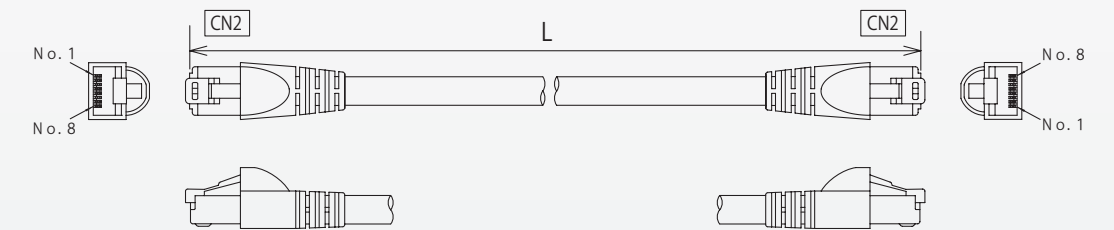
* The transmission characteristics are in compliance with the TIA/EIA-568B.2 Cat5e (Cable) standard.



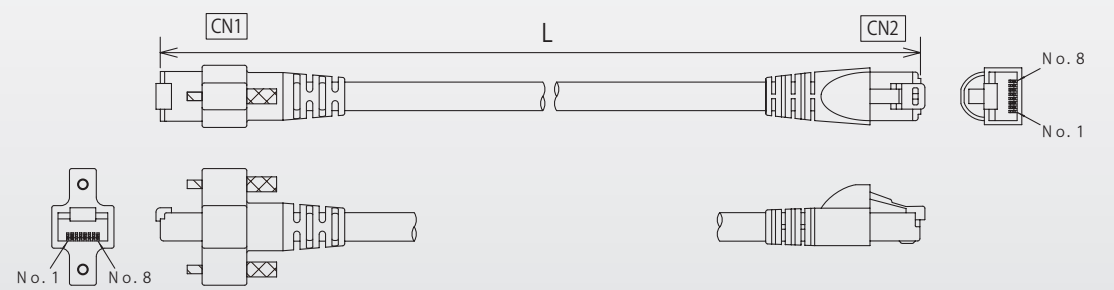
The structure of the standard type cable

External appearance | Examples of products in the Gigabit Ethernet Cable Assembly lineup

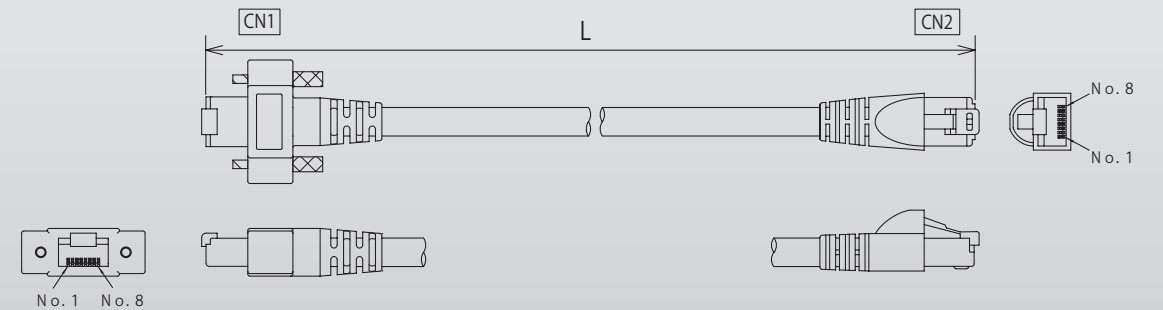
■ Latch type on both ends



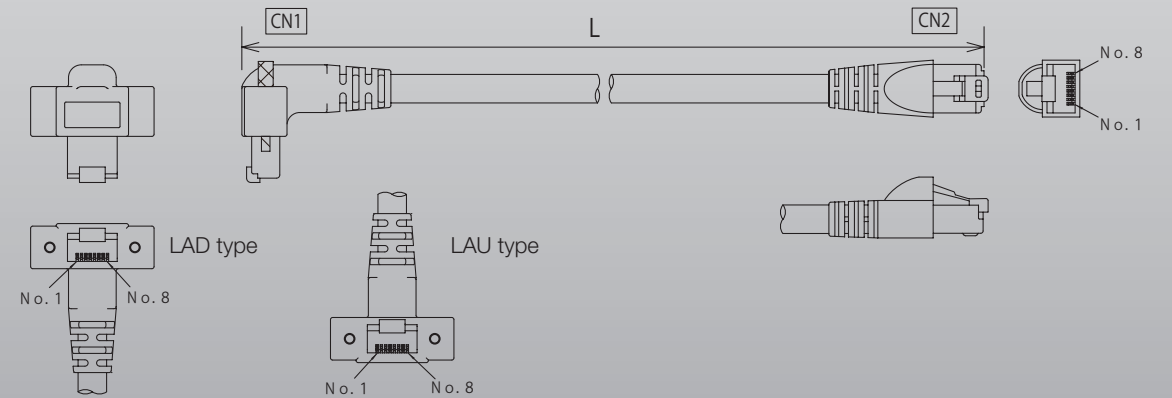
■ Vertical straight mold type + Latch type



■ Horizontal straight mold type + Latch type



■ Right angle mold type + Latch type



* There are two directions available for the right angle connector.