

CAT6 RJ45 to RJ45 Ethernet Cable Assembly

This CAT6 patchcord is suitable for use in automation technology and industrial applications, as well as external interconnection of electronic equipment. It can be used in EtherCAT, EtherNet/IP, and CC-link IE systems and is suitable for flexible application and indoor installation.



Overview

High-Performance CAT6 Connectivity

This CAT6 RJ45 to RJ45 Ethernet cable assembly is engineered for reliable, high-speed data transmission in professional networking environments. Featuring a stranded copper conductor and dual-shielding, it provides excellent resistance to external EMI for optimal signal integrity. With flexible jacket options including PVC, LSZH, and PUR, this cable is suitable for diverse installation requirements ranging from fixed office setups to occasional movement applications.

Technical Specifications

Minimum Bending Radius

| Application Type | Radius |
|---------------------|------------------------|
| Fixed Application | 8D (D=cable diameter) |
| Occasional Movement | 15D (D=cable diameter) |

Characteristic Impedance: 100 Ω

Protection Classification: IP20

Temperature Range

Fixed Application Temperature

| | | | |
|--------------------------|-------------------------|-------------------------------|------------------------------|
| -20 °C PVC Min | 70 °C PVC Max | -40 °C LSZH/PUR Min | 80 °C LSZH/PUR Max |
|--------------------------|-------------------------|-------------------------------|------------------------------|

Installation Temperature

| | | | |
|------------------------------|------------------------------|--------------------------|-------------------------|
| -5 °C PVC/LSZH Min | 60 °C PVC/LSZH Max | -20 °C PUR Min | 80 °C PUR Max |
|------------------------------|------------------------------|--------------------------|-------------------------|

Construction

Materials

- Conductor: Stranded copper wire
- Insulation: PE
- Shielding: AL/Mylar screen and tinned copper wire braid
- Jacket: PVC, LSZH, or PUR

Available Colors: Yellow

Compliance & Standards

Reference Standards

ANSI/TIA-568-C.2 • ISO/IEC11801

Flame Resistance Standard

IEC60332-1