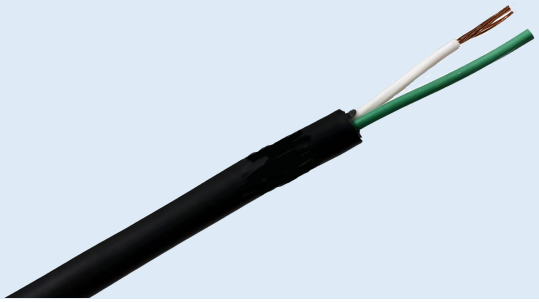
UTP 100Base-T1 Ethernet Cable



Application

It's mainly used to achieve high-speed data transmission, meeting the development needs of automotive intelligence and connectivity. It can be applied in various aspects such as in-vehicle ECU communication, driving assistance systems, and infotainment systems

Technical Data

Reference standard: IEEE802.3bw, ISO19642

Temperature range: -40 to 105°C, -40 to 125°C

Bending radius: 5 × O.D. (Static)

Construction

0.13 mm²

	Material	Diameter
Conductor:	Copper Alloy	0.16±0.008mm×7
Insulation:	PP	0.85±0.1mm
Jacket:	TPE	3.2±0.15mm

0.35 mm²

	Material	Diameter
Conductor:	Tinned Copper	0.254±0.008mm×7
Insulation:	PP	1.4±0.1mm
Jacket:	TPE	4.2±0.2mm

Transmission Performance

Characteristic Impedance: 100+/-10Ω

Insertion Loss:

Frequency (MHz)	1	10	33	66
Limit (dB/m)	0.06	0.16	0.31	0.14

Return Loss:

Frequency (MHz)	1	20	66
Limit (dB)	20	20	14.8

Mode conversion loss:

Frequency (MHz)	1	50	200
LCTL (dB)	46	46	34
LCL (dB)	46	46	34