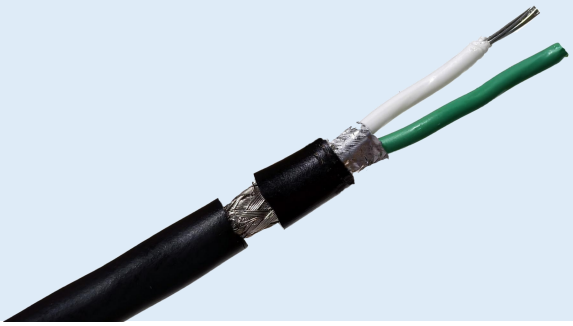
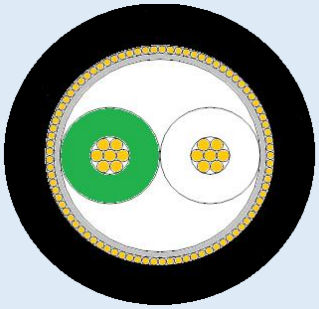
STP 10GBase-T1 Ethernet Cable





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:	TC9, ISO19642
Temperature range:	-40 to 105°C
Bending radius:	5 × O.D. (Static)

Construction	Material	Diameter (mm)
Conductor:	Tinned Copper	0.16±0.008×7
Insulation:	Foamed Polypropylene	1.23±0.05
Shielded:	Al-PET	≥ 115%
Braiding:	Tinned Copper	0.10±0.008×16×6
Jacket:	PVC	3.8±0.2

Transmission Performance

Characteristic Impedance: 100+/-5Ω

Insertion Loss:

Frequency (MHz)	5	100	1000	3000	5500
Limit (dB/m)	0.13	0.29	1.0	2.0	3.0

Return Loss:

Frequency (MHz)	1	10	40	2000	3000	5500
Limit (dB)	22.0	22.0	20	20	15	15

Shielding Effectiveness: 45 dB