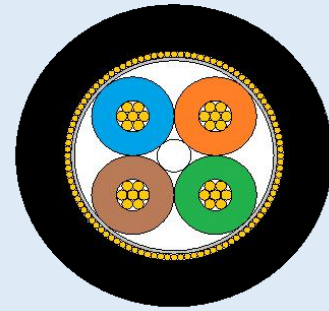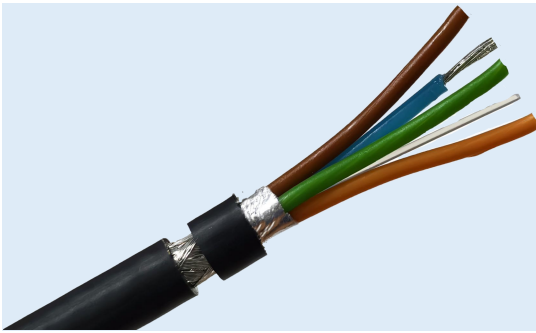# Automotive Cable

HSD Data Cable 🍁

Application

HSD cables are mainly used for high-speed data transmission, which can meet the demand for fast and stable transmission of audio, video and other signals in the development of automotive intelligence. Their applications include data transmission for in-vehicle displays, data transmission for cameras etc.

Technical Data

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

Construction	Material	Diameter (mm)
Conductor:	Tinned Copper	0.17±0.008×7
Insulation:	Polypropylene	1.25±0.05
Filler:	Polypropylene	TBD
Shielded:	Al-Pet	≥ 115%
Braiding:	Tinned Copper	0.10±0.008×16×8
Jacket:	PVC	4.6±0.2

Transmission Performance

Characteristic Impedance: 100 +/- 6Ω

Insertion Loss:

Frequency (MHz)	10	50	100	400	500	1000
Limit (dB/m)	0.10	0.23	0.33	0.71	0.81	1.13
Frequency (MHz)	1500	2000	2500	3000		
Limit (dB/m)	1.40	1.64	1.90	2.20		

Return Loss:

Frequency (MHz)	10	50	100	400	500	1000
Limit (dB)	14.0	14.0	14.0	14.0	14.0	14.0
Frequency (MHz)	1500	2000	2500	3000		
Limit (dB)	14.0	11.7	10.0	7.0		