

## Automotive Shielded Twist Pair Cable

STP

### ■ Characteristics

High-speed communications cable for vehicles that supports communication speeds of 10Gbps

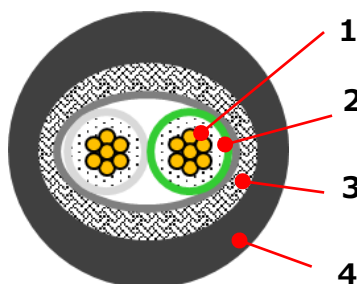
### ■ Heat resistant temperature

100°C

### ■ Compliance standard

·Channel and Component Requirements for Fully Shielded 1000BASE-T1 and 2.5G/5G/10GBASE-T1 Link Segments

### ■ Structural specifications



1. Conductor : Stranded annealed copper wire
2. Insulation : Foamed Polypropylene
3. Shielding : PET - aluminum - foil  
Tin-plated annealed copper wire
4. Sheath : PVC

Product name	1. Conductor			2. Insulation	
	Conductor stranding [no], [mm]	Cross section nom. [mm <sup>2</sup> ]	Conductor diameter nom. [mm]	Wall thickness nom. [mm]	Core diameter nom. [mm]
HSFPTLABS	7, 0.16	0.1407	0.48	0.37	1.22
HSFPTSABS	7, 0.16	0.1407	0.48	0.37	1.22
Twist	3. Shielding			4. Sheath	
Lay length nom. [mm]	Foil design	Braid design [no], [no], [mm]	Shielding diameter nom.[mm]	Wall thickness nom. [mm]	Outer diameter nom. [mm]
23	longitudinal wrapped	6, 16, 0.1	3.0	0.40	3.8
17	spiral wrapped	6, 16, 0.1	3.0	0.40	3.8

### ■ Transmission characteristics (Typical value)

CIDM	Ω	100 ±3
IL	dB/m	0.04 (1MHz) , 0.12 (10MHz) , 0.34 (100MHz) , 1.04 (1GHz) , 2.21 (4GHz)
RL	dB	-22 (1MHz) , -22 (10MHz) , -26 (100MHz) , -23.8 (1GHz) , -19 (4GHz)
LCTL	dB	-20 (1MHz~4GHz)
SA	dB	-50 (30MHz~4GHz)
CA	dB	-70 (30MHz) , -70 (750MHz) , -72.5 (1GHz) , -60.5 (4GHz)

※ Please contact us for performance details.

※ Mean of symbols

HS : High Speed communication

F : Foamed

P : Polypropylene insulation

T : Twist pair

L : Longitudinal wrapped

S : Spiral wrapped

A : Aluminum foil shielding

BS : Braid shielding

Yazaki Corporation  
Contact information



<https://connect.yazaki-group.com/ogfbn/inquiry.cgi>

Note: Product specifications are subject to change without notice due to product improvements, etc. If you are considering hiring, please contact our sales department for confirmation.