

## OPTIC FIBER TRANSMISSION MEDIUM

# Automotive Multimedia Cable

### Overview

M.O.S.T. (Media Oriented Systems Transport) Standards was be made by European 16 major carmakers together in 2000,The standard specified the plastic fiber as the data transmission medium, mainly support the entertainment information application, thereby the transfer speed of the car information up to 900Mbit/s.

M.O.S.T. (Media Oriented Systems Transport) A stereo, television, refrigerators, the global positioning systems and vehicle a telephone device consisting of interconnected Lan. in the short data transmission, industrial automation area, especially in the possession of the security aspects of the information and entertainment features more important.

Located in Chengdu, Bones Electronics Co., Ltd has been committed to the plastic fiber and cable researching and manufacturing and application ; with plastic fiber used in the car, with a series of m. it's. o. The line. Plastic fiber and strictly in the face and technology and methods to ensure strict fiber test.

### Structure

### Specification

- Light, routing space saving;
- Data free from Electromagnetic interference.
- High rate of data transmission, big data, most25 standard data rate for 25mbps most150 standards, the data rate for 150Mbps
- Transmitting Synchronizing data, Synchronizing data and control data.
- Plug and Play Mechanism
- Connection multimedia devices more

### Application

- Digital radio broadcasts
- The screen display
- An interactive system
- GPS Navigation system
- Multimedia entertainment system



Picture3 Plastic Optic Fiber



Picture 4 Communication cables

### Material: PMMA

Item	Data
Core Diameter	Φ1.0mm, Φ0.25mm, Φ0.5mm, Φ0.75mm
Outside Diameter	Φ2.2~9.0mm±0.1mm
Fiber Material	PMMA
Wavelength	650nm or 530nm
Typical Attenuation	<180dB/km
Refractive Index	Step Index
Bend Radius	5 x core Diameter
Numberal Aperture	0.50
Angle of incidence	60°
Interchangeability	<0.5dB
Tensile Strength	≅ 1.0dB(0~80N)
Vibration	≅ 1.0dB(5~50Hz)
Working Temperature	-40℃~+85℃
Storage Temperature	-40℃~+85℃

### Product model

Model No	Connector 1	Connector 2	core specifications	Optic cable types	Optic cable color	Max. length
<b>MOST 1355752</b>	<b>MOST</b>	<b>MOST</b>	POF 980/1000	Double cable	Yellow / Custom	1000 m
<b>MOST 1355426</b>	<b>MOST</b>	<b>MOST</b>	POF 980/1000	Double cable	Yellow / custom	1000 m
<b>MOST 1355531</b>	<b>MOST</b>	<b>MOST</b>	POF 980/1000	Double cable	Yellow / custom	1000 m
<b>MOST 1355868</b>	<b>MOST</b>	<b>MOST</b>	POF 980/1000	Double cable	Yellow / custom	1000 m

\* According to practical applications, can use different type couplings.

## MOST 1355752

### Specification

- Use and production of car for most plastic fiber connections, Mount design, compact structure, waterproof, and the design and low wastage, high precision in the coupling
- Imported Japanese fiber to ensure that data maximize transport
- Accurate polishing, the PVC, PE, material for wear, the prevention of corrosion, weight and high temperatures
- Won't conduct electricity and electromagnetic interference of radiation for the development of multimedia system design
- The industry standard of the assembly process is in European and Japanese cars in the brand is widely used



### Specification

Core Diameter:  $\Phi$ 1.0mm,  $\Phi$ 0.25mm,  $\Phi$ 0.5mm,

Core material: Domestic fiber optics or import

Japanese fiber

The diameter: 2.2\*2

Cladding material: CPE, PE, PVC

Cladding color: Orange or other colors

Typical Attenuation: <180dB/km Working

Temperature: -40°C-+85°C Length:  
1000mm (special length: 0-100m)

Certification: ROHS 、 CE

## MOST 1355426

### Specification

- Use and production of car for most plastic fiber connections, Mount design, compact structure, waterproof, and the design and low wastage, high precision in the coupling
- Imported Japanese fiber to ensure that data maximize transport
- Accurate polishing, the PVC, PE, material for wear, the prevention of corrosion, weight and high temperatures
- Won't conduct electricity and electromagnetic interference of radiation for the development of multimedia system design
- The industry standard of the assembly process is in European and Japanese cars in the brand is widely used



### Specification

Core Diameter:  $\Phi 1.0\text{mm}$ ,  $\Phi 0.25\text{mm}$ ,  $\Phi 0.5\text{mm}$ ,

Core material: Domestic fiber optics or import Japanese fiber

The diameter: 2.2\*2

Cladding material: CPE, PE, PVC

Cladding color: Orange or other colors

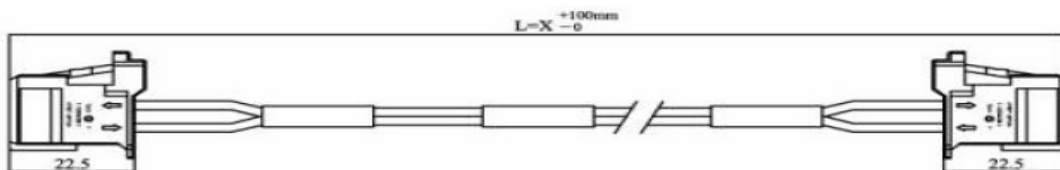
Typical Attenuation: <180dB/km Working

Temperature:  $-40^{\circ}\text{C}$ - $+85^{\circ}\text{C}$  Length:

1000mm (special length: 0-100m)

Certification: ROHS 、 CE

### Structure



### Product characteristics

- Use and production of car for most plastic fiber connections, Mount design, compact structure, waterproof, and the design and low wastage, high precision in the coupling
- Imported Japanese fiber to ensure that data maximize transport
- Accurate polishing, the PVC, PE, material for wear, the prevention of corrosion, weight and high temperatures
- Won't conduct electricity and electromagnetic interference of radiation for the development of multimedia system design
- The industry standard of the assembly process is in European and Japanese cars in the brand is widely used

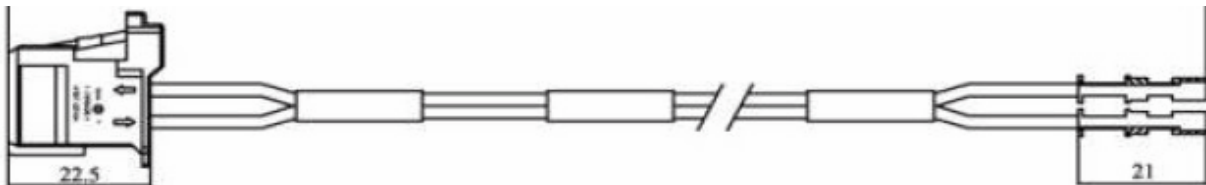


### Specification

Core Diameter:  $\Phi 1.0\text{mm}$ ,  $\Phi 0.25\text{mm}$ ,  $\Phi 0.5\text{mm}$ ,  
 Core material: Domestic fiber optics or import Japanese fiber  
 The diameter: 2.2\*2  
 Cladding material: CPE、PE、PVC  
 Cladding color: Orange or other colors  
 Typical Attenuation: <180dB/km Working Temperature:  $-40^{\circ}\text{C}$ ~ $+85^{\circ}\text{C}$  Length: 1000mm (special length: 0-100m)  
 Certification: ROHS 、 CE



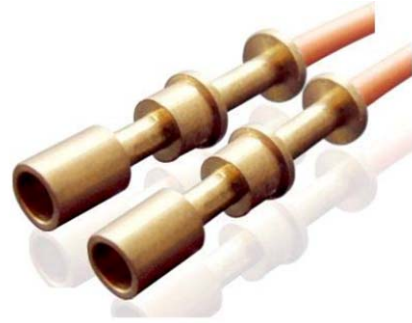
### Structure



**MOST 1355868**

**Product characteristics**

- Use and production of car for most plastic fiber connections, Mount design, compact structure, waterproof, and the design and low wastage, high precision in the coupling
- Imported Japanese fiber to ensure that data maximize transport
- Accurate polishing, the PVC, PE, material for wear, the prevention of corrosion, weight and high temperatures
- Won't conduct electricity and electromagnetic interference of radiation for the development of multimedia system design
- The industry standard of the assembly process is in European and Japanese cars in the brand is widely used



#### Performance specification

Core Diameter:  $\Phi 1.0\text{mm}$ ,  $\Phi 0.25\text{mm}$ ,  $\Phi 0.5\text{mm}$ ,

Core material: Domestic fiber optics or import Japanese fiber

The diameter: 2.2\*2

Cladding material: CPE, PE, PVC

Cladding color: Orange or other colors

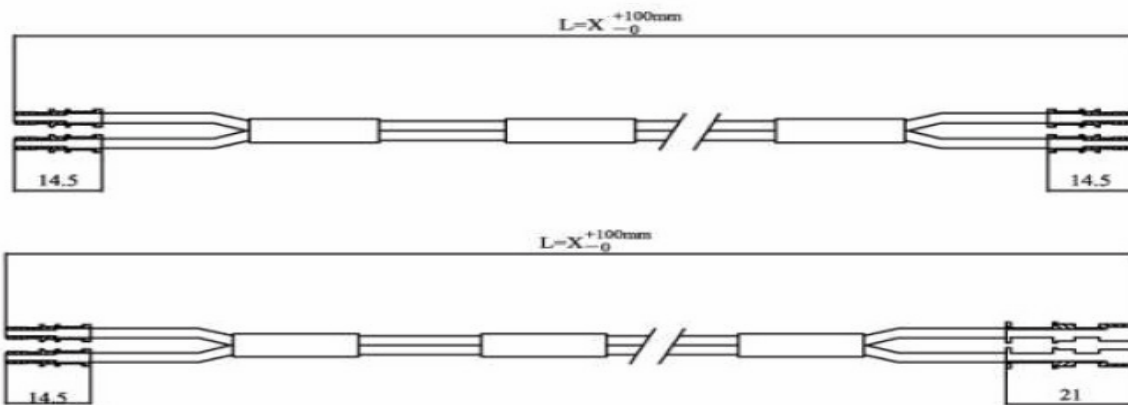
Typical Attenuation: <180dB/km Working

Temperature: -40°C--+85°C Length: 1000mm (special length: 0-100m)

Certification: ROHS 、 CE



## Structure



We have more standard and custom fiber and cables available, for communication and lighting. Interest customers, please contact us for more information:

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