



4FS10-S

Single-mode Fiber Optic Fantails

Fiber Optic Assemblies (Multi Channel Fantails) with SC connectors on both ends.

— Key Features and Benefits

- Flexible cable with reliable bellcore boots
- Adjustable fantail length with peel-off string
- UPC polishing; Return loss ≥ 50 dB for single mode
- Transmission loss 0.5dB at $\lambda=1.31\mu\text{m}$ and 0.4dB at $\lambda=1.55\mu\text{m}$



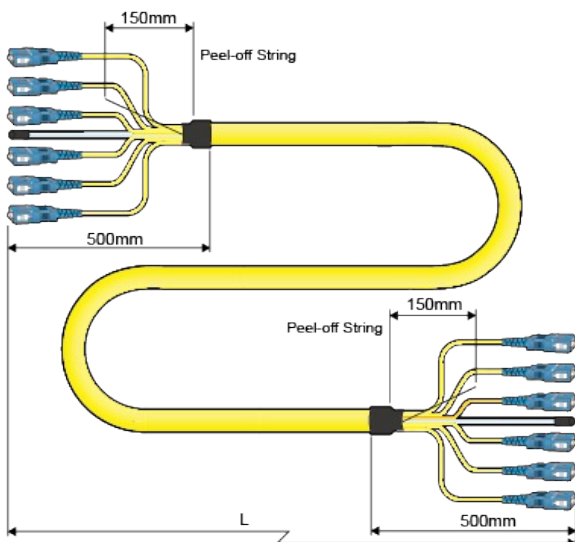
For inquiries about this products



Tech Data

Downloads

Type	Channel	Model	Length(m)	Fiber Optic Cable		
				Part Number	Unit O.D. (mm)	Nom O.D. (mm)
SC - SC	2	2FS10-S	10	LF-SM2-2C	2	7.4
		2FS20-S	20			
		2FS50-S	50			
	4	4FS10-S	10	LF-SM2-4C		
		4FS20-S	20			
		4FS50-S	50			
	6	6FS10-S	10	LF-SM2-6C		9.0
		6FS20-S	20			
		6FS50-S	50			
	8	8FS10-S	10	LF-SM2-8C		10.0
		8FS20-S	20			
		8FS50-S	50			
	12	12FS10-S	10	LF-SM2-12C		12.8
		12FS20-S	20			
		12FS50-S	50			
	16	16FS10-S	10	LF-SM2-16C		14.7
		16FS20-S	20			
		16FS50-S	50			
	24	24FS10-S	10	LF-SM2-24C		15.3
		24FS20-S	20			
		24FS50-S	50			



Product Specifications
(*FS** - S)

1/2
SAD141E
Ver 1.2
CANARE Electric Co., Ltd.

1. Scope This specification covers the performance of Fiber Optic Assemblies (Multi Channel Fantails).

2. Applicable Standards JIS C 6830 Optical fiber cords
JIS C 5973 F04 Type connectors for optical fiber cables (SC)

3. General Specifications

(1) Product Name Fiber Optic Assemblies (Multi Channel Fantails)

(2) Model Name *FS** - S

└───┬───┘	Length	10m, 20m, 50m
└───┬───┘	No. of ch	2ch, 4ch, 6ch, 8ch, 12ch, 16ch, 24ch

(3) Weight

	2FS** - S	4FS** - S	6FS** - S	8FS** - S	12FS** - S	16FS** - S	24FS** - S
10m	0.6kg	0.6kg	0.8kg	1.1kg	1.5kg	1.7kg	1.9kg
20m	1.1kg	1.1kg	1.5kg	2.1kg	2.9kg	3.3kg	3.7kg
50m	2.7kg	2.8kg	3.7kg	5.2kg	7.1kg	8.2kg	9.2kg

※The above is approx. Value of a product itself in plastic bag (standard package).

(4) Appearance As shown in Fig. DL141

(5) Optic Fiber Cord Collective Type Cable [LF-SM2-*C / SAQ005]
Single mode (SM) fiber, non-dispersion shifted, Jacket color; Yellow
Cable O.D. ϕ 2.0mm

(6) Packaging Donut roll, Individual in plastic bag per cable.

(7) Temperature Range $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$

(8) Humidity $\sim 95\%$

4. Characteristics See individual specifications for more details.

4.1 Optical Performance

Item	Characteristics	Conditions
Insertion Loss (including cable loss)	$\leq 0.5\text{dB}$ ($\lambda = 1.31 \mu\text{m}$) *Polish: UPC	Shall be connected with a master cable. (IEC1300-3-4)
Return Loss	$\geq 50\text{dB}$ ($\lambda = 1.31 \mu\text{m}$) *Polish: UPC	Shall be connected with a master cable. (IEC1300-3-6)

4.2 Mechanical Characteristics

Item	Characteristics	Conditions
Compatibility	To be connected without any abnormality.	The receptacle and applicable plug shall be connected.

Item	Characteristics							
	Single	2ch	4ch	6ch	8ch	12ch	16ch	24ch
Tensile strength	≤60N	≤290N		≤300N	≤780N			
Bending radius	≥30mm	≥74mm		≥90mm	≥100mm	≥128mm	≥147mm	≥153mm

<Note> Testing must be performed under standard conditions set down in “JIS-C0010 General Environment Testing Rules (Electric·Electronics)”.

- * Standard Conditions: unless otherwise specified, all tests and measurements should be performed within a normal temperature range of 15-35°C, a relative humidity of 25-27%, and an atmospheric pressure of 86-106kPa.

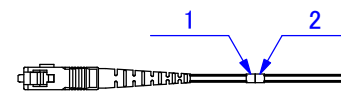
<Mark Band>

The mark band indication depends on numbering the jacket surface.

Numbering the jacket surface	Mark Band
1 1	1
2 2	2
⋮ ⋮	⋮
24 24	2 4

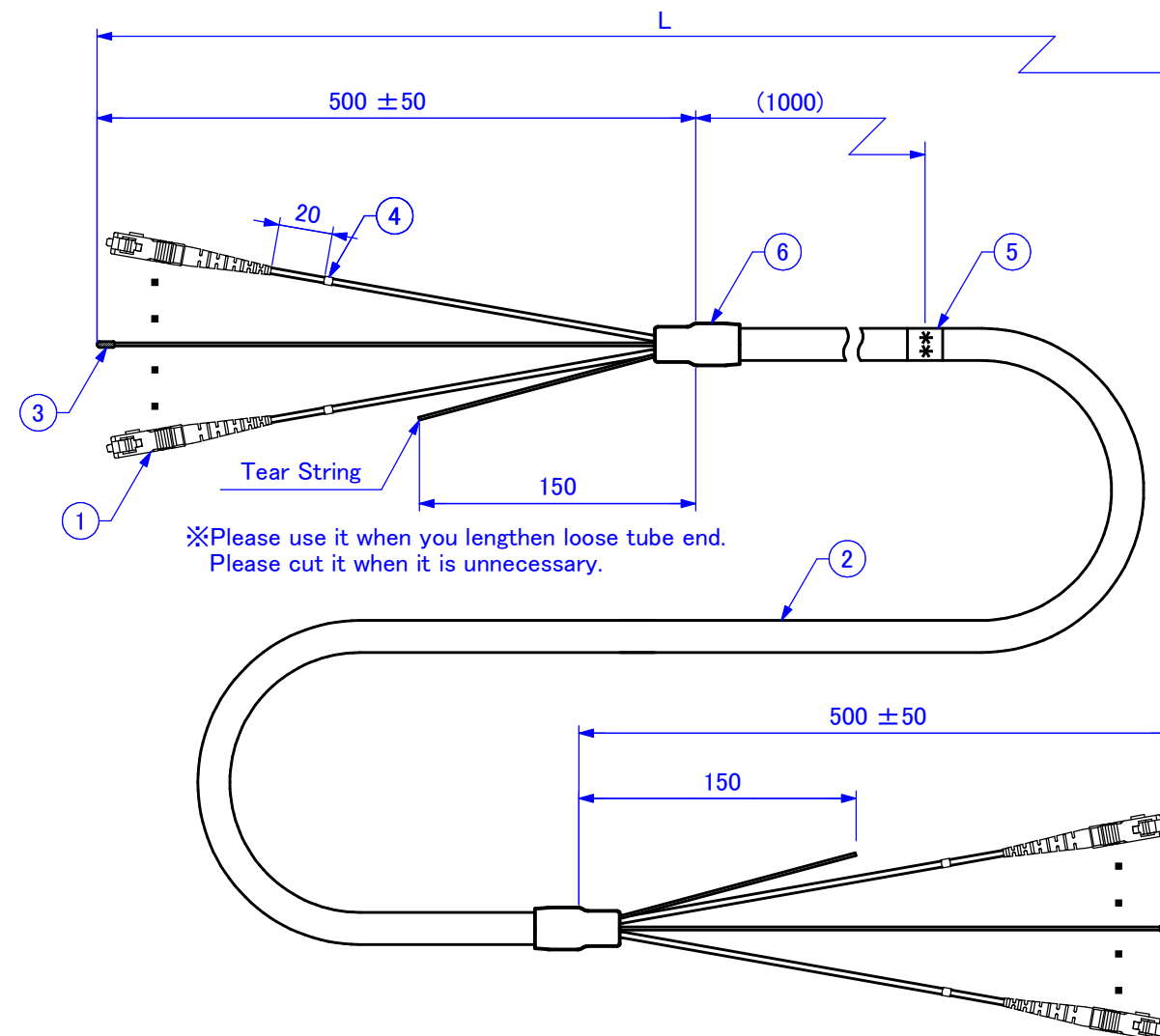
※Two mark bands are used from 9ch to 24ch.

Example) 12ch



NOTE)

The purpose of having left TM(Tension member) is to fix the cable at protection and the construction of breaking the fiber. Please cut it when it is unnecessary.



<Part Details>

Model	Cable	φ, O.D	Terminal Cap	TM.OD / TM Cap (Model)
2FS**S	LF-SM2-2C	φ 7.4	TCV-81	φ 0.95 φ 1.0x0.8x5 -
4FS**S	LF-SM2-4C	φ 7.4	TCV-81	φ 0.95 φ 1.0x0.8x5 -
6FS**S	LF-SM2-6C	φ 9.0	TCV-141	φ 2.2 φ 2.0x1.0x10 (VCP-2)
8FS**S	LF-SM2-8C	φ 10.0	TCV-221	φ 3.3 φ 3.0x1.0x10 (VCP-3.0)
12FS**S	LF-SM2-12C	φ 12.8	TCV-381	φ 5.8 φ 5.0x1.0x15 (VCP-5.0)
16FS**S	LF-SM2-16C	φ 14.7	TCV-16	φ 3.3 φ 3.0x1.0x10 (VCP-3.0)
24FS**S	LF-SM2-24C	φ 15.3	TCV-16	φ 3.9 φ 3.5x1.0x15 (VCP-3.5)

※Neither the terminal cap nor the TM cap are fixed.

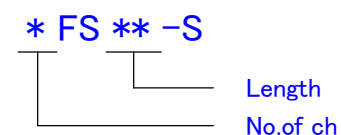
Polish: Equivalent of UPC
 Insertion Loss: ≤ 0.5dB (λ = 1.31 μm)
 Return Loss: ≥ 50dB (λ = 1.31 μm)

※Refer to an allowance for other length.

Model	LENGTH[L]
*FS50-S	50 000 +600, 0
*FS20-S	20 000 +400, 0
*FS10-S	10 000 +400, 0
Model	LENGTH[L]

LENGTH[L]	Allowance
100m or more ~ less than 200m	+800 0
50m or more ~ less than 100m	+600 0
10m or more ~ less than 50m	+400 0
5m or more ~ less than 10m	+200 0
1m or more ~ less than 5m	+100 0
LENGTH[L]	Allowance

<Model>



※Part Details is shown in the above-mentioned.

6	Terminal Cap	-	2	PVC Color:BLK	(See the above-mentioned.)
5	Indication Label	-	1	Label Color:WHT/Character Color:BLK	(* : Length)
4	Mark Band	KS-1	-	-	(See the above-mentioned.)
3	TM Cap	-	2	PVC Color:BLK	(See the above-mentioned.)
2	Cord collective Type Cable	LF-SM2-**C	1	Color:YEL	(Numbering is on the inner jacket.)
1	SC Connector Ferrule	φ 2.0mm SM, Zirconia	-	JIS C 5973	(With Dust Cap)
ITEM	DESCRIPTION	P/N	QTY.	REMARKS	

TITLE	PJTN	UNIT	SCALE	TOL.	DATE	Ver	MODEL	DRW .No.
Fiber Optic Assemblies (Multi Channel Fantails)	-	mm	1:2.5	-	2015-04-02	1.4	*FS**S	DL141E