Environment Resistant Type Optical / Electrical Combined Connectors

FSE Series DDK Ltd.

OUTLINE

◆ FSE connector is mobile phone base stations, computer information proven connection is waterproof connector outdoor surveillance cameras.



FEATURE

◆ Locking-with-one-touch system

It has erroneous-engagement prevention mechanism including five positioning keys at the engagement section. Insert the connector, turn the coupling clockwise until a click sounds, which means that secure engagement has been attained.

◆ Waterproof (oil-resistant) and dust-resistant design (IP67)

Receptacle has an O ring, so once it is mated with a plug, the mating section prevents perfectly invasion of water drops, cutting oil and dusts.

The cable-connection side of plug has a cable cramp with rubber bushing meeting the requirement for waterproofness.

◆ Combined optical and electric arrangement.

Combined optical and electrical connection combination of max eight conductors the is available.

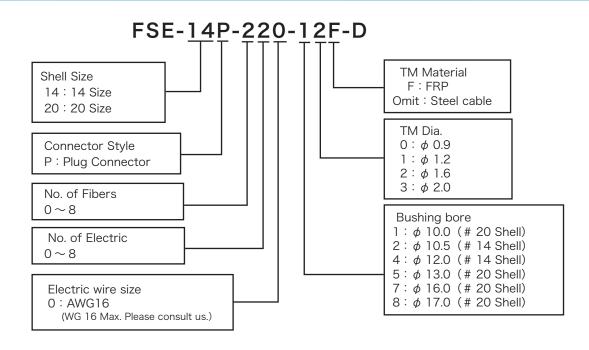
SPECIFICATIONS

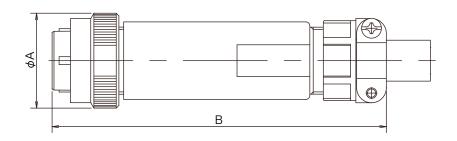


Environmental performance	Operating Temperature	-25°C to +70°C				
	Relative Moisture	When not Connected	80% max.			
	Relative Moisture	When Connected 100%				
	Waterproof Rating	When Connected IP67		67		
Mechanical performance	Mating Cycle	500 times				
Optical performance	Insertion Loss	Fiber	SM 10/125	GI 50/125		
	insertion Loss	PC Polish	0.7dB max.	0.5dB max.		
Electric performance	Applicable Wire Size	AWG16 Max.				
	Dielectric Withstanding Voltage	1500V DC				
	Insulation Resistance	1,000 M Ω min. (500V DC)				
	Contact Resistance	10 m Ω max.				

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▶Plug Connector

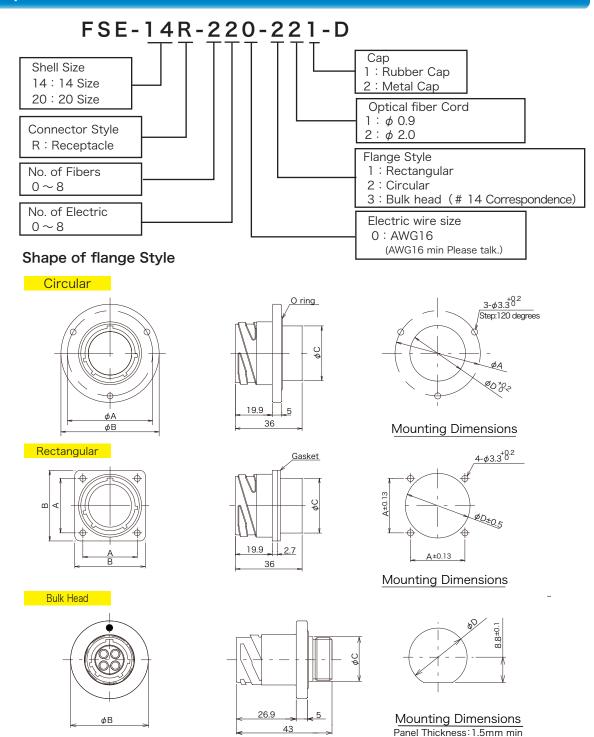




Shell Size	Part Number	Optical / Electric	Bushing	TM Dia.	TM Material	φ A	В
14	FSE-14P-40-2 □□ -D	4/0		φ 0.9	Steel wire	35.9	(100)
	FSE-14P-20-2 □□ -D	2/0	φ 10.5	φ 1.2	FRP		
	FSE-14P-220-2 □□ -D	2/2		φ 1.6	FNF		
	FSE-14P-40-4 □ □ -D	4/0		φ 0.9	Steel wire		
	FSE-14P-20-4 □□ -D	2/0	φ 12.0	φ 1.2			
	FSE-14P-220-4 □□ -D	2/2		φ 1.6	FNF		
20	FSE-20P-80-1 □□ -D	8/0	φ 10.0	φ 0.9	Steel wire	40.6	(110)
	FSE-20P-230-1 □□ -D	2/3		φ 1.2			
	FSE-20P-440-1 □□ -D	4/4		φ 1.6	FNF		
	FSE-20P-80-5 □□ -D	8/0		φ 0.9	Steel wire		
	FSE-20P-230-5 □□ -D	2/3	φ 13.0	φ 1.2			
	FSE-20P-440-5 □□ -D	4/4		φ 1.6			
	FSE-20P-80-7 □□ -D	8/0		φ 0.9	Steel wire		
	FSE-20P-230-7 □□ -D	2/3	φ 16.0	φ 1.2			
	FSE-20P-440-7 □□ -D	4/4		φ 1.6	IIVE		

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Receptacle



Shell Size	Part Number	Optical / Electric	Flange Style	Cord Dia.	Сар	Α	В	С	D
14	FSE-14R-40-2 □ □ -D	4/0	Circular Style	φ 0.9 φ 2.0	Rubber Cap Metal Cap	32.0	38.0	18.5	19.0
	FSE-14R-20-2 □ □ -D	2/0							
	FSE-14R-220-2 □ □ -D	2/2							
	FSE-14R-40-3 □ □ -D	4/0	Bulk Head		Rubber Cap Metal Cap	_	35.0	20.0	20.0
	FSE-14R-20-3 □ □ -D	2/0							
	FSE-14R-220-3 □ □ -D	2/2							
20	FSE-20R-80-1 □ □ -D	8/0	Rectangular Style	φ 0.9 φ 2.0	Rubber Cap Metal Cap	29.36	38.1	29.6	16.0
	FSE-20R-230-1 □□ -D	2/3							
	FSE-20R-440-1 □□ -D	4/4							

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