

Product Standards

Rating	Operating temperature range	-25°C~70°C	Storage temperature range	-25°C~85°C
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Item			Test Method (JIS C 5961)	Standard
Optical Performance	Reflection attenuation	(SM)	1,300nm wavelength	22 dB or greater (PC), 40 dB (AdPC), 60 dB (Angled PC)
		(GI)		22 dB or greater (PC)
	Attenuation	(S grade)		Nominal value ± 1.0 dB
		(A grade)		Nominal value ± 1.5 dB
Mechanical Performance	Coupling force and separation force (SC type)		Measure when connectors are coupled and separated in the direction of the axis.	Coupling force 19.6 N or less Separation force 19.6 N or less
	Split sleeve holding force of the adapter		$\phi 2.499 \pm 0.0005$ -mm zirconia gauge	Phosphor bronze 2 to 5.9 N Zirconia 2 to 3.9 N
	Repetitive operation		500 times	1) The standard for attenuation after test must be satisfied. 2) No damage, cracks, or part looseness
	Vibration resistance		Vibration range of 10 to 55 Hz, in 3 directions, 3 hours each	
	Shock resistance		Acceleration of 981 m/s ² , in both directions along 3 axes, 3 times each (Total of 18 times)	
Environmental performance	Humidity resistance (Temperature and humidity cycle)		Temperature -10°C to 65°C, humidity 90 to 96% 10 cycles	No conspicuous corrosion
	Temperature cycle		Temperature -25°C to 70°C 100 cycles	
	Heat resistance		Leave for 500 hours at a temperature of 85°C	
	Cold resistance		Leave for 500 hours at a temperature of -25°C	
	Salt fog		Left in a 5% concentration of salt fog for 48 hours	

Materials

HRFC Plug Type

Part Name	Material	Notes
Coupling	Copper alloy	NTT FC corresponding item
Housing	Stainless steel	
Ferrule	Zirconia	
Split sleeve	Zirconia, copper alloy	

HSC Plug Type

Part Name	Material	Notes
Housing	Polybutylene terephthalate	NTT SC corresponding item
Ferrule	Zirconia	
Split sleeve	Zirconia, copper alloy	

Structure of the Product Number

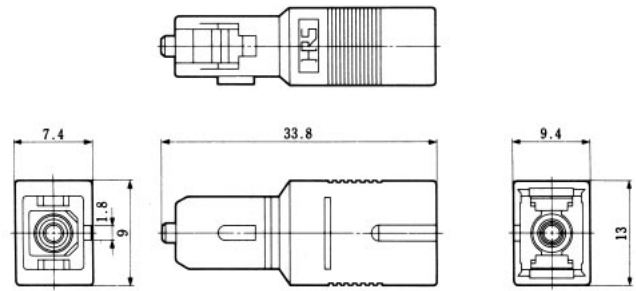
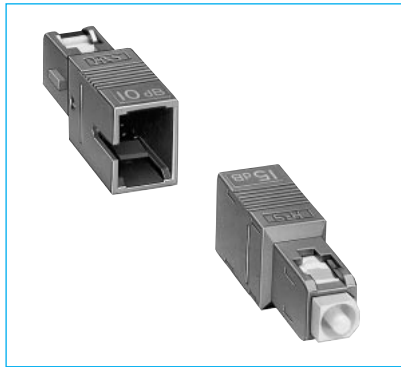
HSC - AT 1 S - A 03 S

① ② ③ ④ ⑤ ⑥ ⑦

① Series name: H S C...Applicable to JIS C 5973 (F04) H R F C...Applicable to JIS C 5970 (F01)	⑥ Attenuation : 02 ...2dB 03 ...3dB 05 ...5dB 07 ...7dB 10 ...10dB 15 ...15dB 20 ...20dB 25 ...25dB 30 ...30dB
② Indicates an attenuator.	
③ Specification : 1...Split sleeve made of copper alloy 4...Split sleeve made of zirconia	
④ Polishing : S...PC polishing (≥ 22 dB) K...AdPC polishing (≥ 40 dB)	
⑤ Optical fiber : A...SM-9.5/125 B...GI-50/125 DF...Doped fiber	⑦ Attenuation tolerance : S..... ± 1 dB A..... ± 1.5 dB

■Product Specifications List

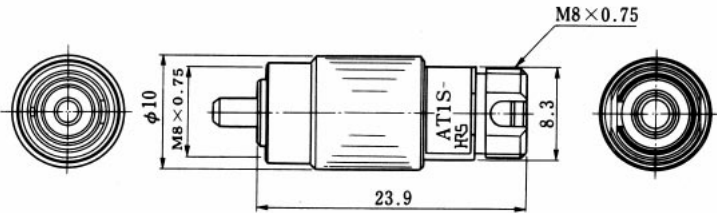
●SC-type Attenuators



HRS No.	Product Number	Attenuation	Split Sleeve Specification	Reflection Attenuation	Notes
CL820-0075-0-01	HSC-AT1S-B05A(01)	5dB	Copper alloy	≥22dB	GI-50/125
CL820-0076-2-01	HSC-AT1S-B10A(01)	10dB			
CL820-0077-5-01	HSC-AT1S-B15A(01)	15dB			
CL820-0078-8-01	HSC-AT1S-B20A(01)	20dB			
CL820-0094-4	HSC-AT4S-B05A	5dB	Zirconia		
CL820-0095-7	HSC-AT4S-B10A	10dB			
CL820-0096-0	HSC-AT4S-B15A	15dB			
CL820-0097-2	HSC-AT4S-B20A	20dB			
CL820-0093-1	HSC-AT1S-A03S	3dB	Copper alloy	≥22dB	SM-9.5/125
CL820-0071-9-01	HSC-AT1S-A05A(01)	5dB			
CL820-0072-1-01	HSC-AT1S-A10A(01)	10dB			
CL820-0073-4-01	HSC-AT1S-A15A(01)	15dB			
CL820-0074-7-01	HSC-AT1K-A03S	3dB			
CL820-0092-9	HSC-AT1S-A20A(01)	20dB		≥40dB	
CL820-0079-0	HSC-AT1K-A05A	5dB			
CL820-0080-0	HSC-AT1K-A10A	10dB			
CL820-0081-2	HSC-AT1K-A15A	15dB			
CL820-0082-5	HSC-AT1K-A20A	20dB			
CL820-0054-0	HSC-AT4S-A05A	5dB	Zirconia	≥22dB	
CL820-0055-2	HSC-AT4S-A10A	10dB			
CL820-0056-5	HSC-AT4S-A15A	15dB			
CL820-0057-8	HSC-AT4S-A20A	20dB			
CL820-0083-8	HSC-AT4K-A05A	5dB			
CL820-0084-0	HSC-AT4K-A10A	10dB		≥40dB	
CL820-0085-3	HSC-AT4K-A15A	15dB			
CL820-0086-6	HSC-AT4K-A20A	20dB			
CL820-0087-9	HSC-AT4TS-A02S	2dB			
CL820-0088-1	HSC-AT4TS-A05S	5dB			
CL820-0089-4	HSC-AT4TS-A07S	7dB	≥60dB		
CL820-0090-3	HSC-AT4TS-A10S	10dB			

NOTE : Allowable power: 10 mW

●FC-type Attenuators



HRS No.	Product Number	Attenuation	Reflection Attenuation (dB)	Allowable Power (mW)	Suitable Fiber	
820-0063-0	HRFC-AT1S-B05A	5dB	≥22dB	10	GI-50/125	
820-0064-3	HRFC-AT1S-B10A	10dB				
820-0065-6	HRFC-AT1S-B15A	15dB				
820-0066-9	HRFC-AT1S-B20A	20dB				
820-0058-0	HRFC-AT1S-A05A	5dB			≥40dB	SM-9.5/125
820-0060-2	HRFC-AT1S-A10A	10dB				
820-0061-5	HRFC-AT1S-A15A	15dB				
820-0062-8	HRFC-AT1S-A20A	20dB				
820-0067-1	HRFC-AT1K-A05A	5dB				
820-0068-4	HRFC-AT1K-A10A	10dB				
820-0069-7	HRFC-AT1K-A15A	15dB				
820-0070-6	HEFC-AT1K-A20A	20dB				