

Product Standards

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|--|---|---|--|--|
| Rating | Operating temperature range | -25°C ~ 85°C | Storage temperature range | -25°C ~ 85°C |
| 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 | | φ2.499 ±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) | |
| Humidity resistance (Temperature and humidity cycle) | | Temperature -10°C to 65°C, humidity 90 to 96% 10 cycles | | |
| Environmental performance | Temperature cycle | | Temperature -25°C to 70°C 100 cycles | No conspicuous corrosion |
| | 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 | |

HRFC Plug Type

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

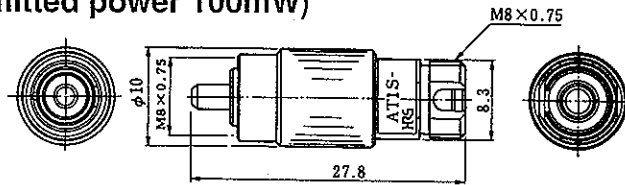
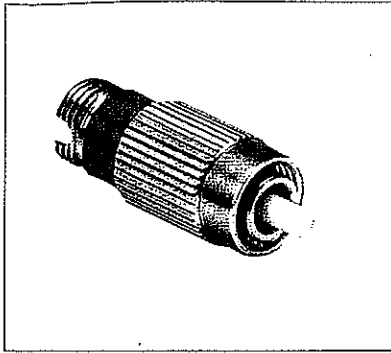
Structure of the Product Number

HSC - AT 1 S - A 03 S

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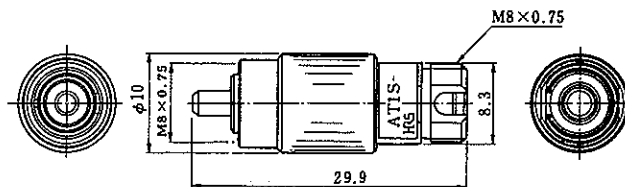
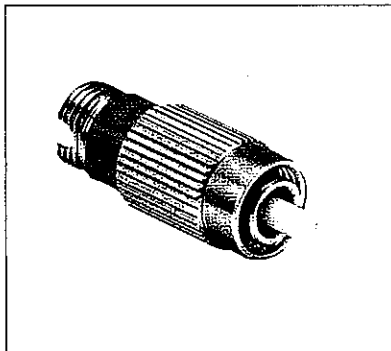
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|--|--|
| ① Series name: H S C...Applicable to JIS C 5973 (F04) HRFC...Applicable to JIS C 5970 (F01) | ⑤ Attenuation : 02..... 2dB 03..... 3dB 05..... 5dB 07..... 7dB 10.....10dB 15.....15dB 20.....20dB 25.....25dB 30.....30dB |
| ② Indicates an attenuator. | ⑦ Attenuation tolerance : S.....±1dB A.....±1.5dB B.....±2dB |
| ③ Specification : 1...Split sleeve made of copper alloy 4...Split sleeve made of zirconia 5...Copper alloy sleeve, cost effective type 8...Zirconia sleeve, cost effective type | |
| ④ Polishing : S...PC polishing (≥22 dB) K...AdPC polishing (≥40 dB) TS...angled physical contact polishing (≥60 dB) | |
| ⑤ Optical fiber : A...SM-9.5/125 B...GI-50/125 B...Doped fiber | |

●FC-type Attenuators (maximum permitted power 100mW)



| HRS No. | Product Number | Attenuation | Polishing form | Split Sleeve Specification | Reflection Attenuation | Notes | | |
|------------|----------------|-------------|----------------|----------------------------|------------------------|-----------|-----|------------|
| 820-0063-0 | HRFC-AT1S-B05A | 5dB | PC | ≧22 | 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 | | | | AdPC | ≧40 | 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 | HRFC-AT1K-A20A | 20dB | | | | | | |

●VA-type FC-type Attenuators (maximum permitted power 10mW)



| HRS No. | Product Number | Attenuation | Split Sleeve Specification | Reflection Attenuation | Notes |
|--------------|----------------|-------------|----------------------------|------------------------|------------|
| CL820-5000-8 | HRFC-AT5S-A05A | 5dB | Copper alloy | ≧22dB | SM-9.5/125 |
| CL820-5001-0 | HRFC-AT5S-A10A | 10dB | | | |
| CL820-5002-3 | HRFC-AT5S-A15A | 15dB | | | |
| CL820-5003-6 | HRFC-AT5S-A20A | 20dB | | | |
| CL820-5004-9 | HRFC-AT5K-A05S | 5dB | | | |
| CL820-5005-1 | HRFC-AT5K-A10S | 10dB | | | |
| CL820-5006-4 | HRFC-AT5K-A15S | 15dB | | ≧40dB | |
| CL820-5007-7 | HRFC-AT5K-A20S | 20dB | | | |
| CL820-5008-0 | HRFC-AT5K-A05A | 5dB | | | |
| CL820-5009-2 | HRFC-AT5K-A10A | 10dB | | | |
| CL820-5010-1 | HRFC-AT5K-A15A | 15dB | | | |
| CL820-5011-4 | HRFC-AT5K-A20A | 20dB | | | |