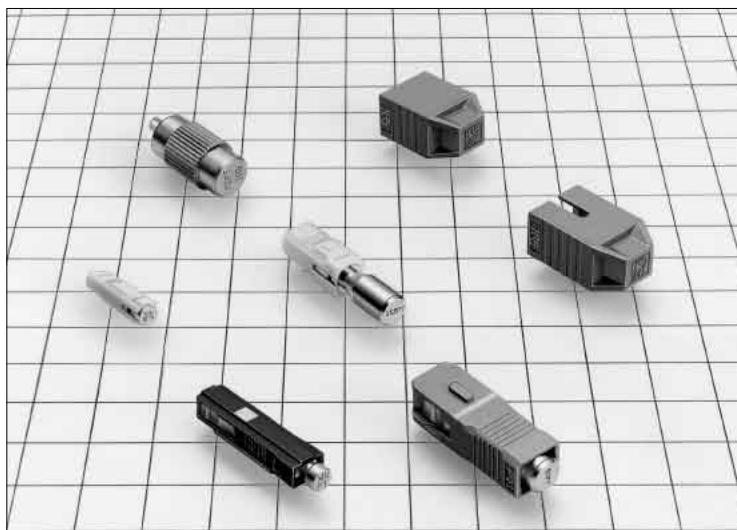


# Optical Terminators



## ■Features

1. Wide varieties of HRS terminators.
2. Excellent operational qualities.
3. Dual wavelength : 1310nm and 1550nm for MU terminators.
4. Please contact us if you have any requests. Hirose will offer excellent solutions to meet your requirements.

## ■Applications

Termination of open ends in optical fiber communication networks.

## ■Product Specifications

|         |                             |                                                                     |                           |                |
|---------|-----------------------------|---------------------------------------------------------------------|---------------------------|----------------|
| Ratings | Operating temperature range | -25°C to +70°C                                                      | Storage temperature range | -25°C to +85°C |
|         | Max. Input Power            | FC, SC (Plug) : 30mW<br>SC (Receptacle) : 10mW<br>MU (Plug) : 250mW | Fiber type                | SM-9.5/125     |

| Item                          |                                              |    | Test Method                                                                                                                | Specifications                                                                          |
|-------------------------------|----------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Optical Characteristics       | Return Loss (AdPC polishing)                 | FC | Wavelength 1310nm (LD)                                                                                                     | 45dB min.                                                                               |
|                               |                                              | SC |                                                                                                                            | 40dB min.                                                                               |
|                               |                                              | MU | Wavelength 1310nm and 1550nm                                                                                               |                                                                                         |
| Mechanical Characteristics    | Durability (cycles, mating/unmating)         |    | 500 times                                                                                                                  | 1) Meets Return Loss requirements.<br>2) No breakage, crack or Looseness on components. |
|                               | Vibration                                    |    | Sweep range : 10 to 55Hz, duration : 3h in each 3 mutually perpendicular direction                                         |                                                                                         |
|                               | Shock                                        |    | Acceleration : 981m/s <sup>2</sup> : number of shock : 3 times in each 3 mutually perpendicular direction, total 18 times. |                                                                                         |
| Environmental Characteristics | Composite temperature - humidity cyclic test |    | Humidity: 90% to 96%<br>Temperature: -10°C to +65°C Duration: 10 cycles (240h)                                             |                                                                                         |
|                               | Change of Temperature                        |    | Temperature: -25°C to +70°C,<br>Time : 400 hours (100 cycles)                                                              |                                                                                         |
|                               | Dry Heat                                     |    | Temp: 85°C Duration: 500h                                                                                                  |                                                                                         |
|                               | Cold                                         |    | Temp: -25°C Duration: 500h                                                                                                 |                                                                                         |
|                               | Salt Mist                                    |    | Concentration: 5% Duration: 48h                                                                                            | No corrosion.                                                                           |

## ■Materials

### ●HRFC Plug type

| Part     | Material        |
|----------|-----------------|
| Coupling | Copper alloy    |
| Body     | Stainless steel |
| Ferrule  | Zirconia        |

### ●HSC Receptacle type

| Part | Material        |
|------|-----------------|
| Body | Synthetic resin |

### ●HSC Plug type

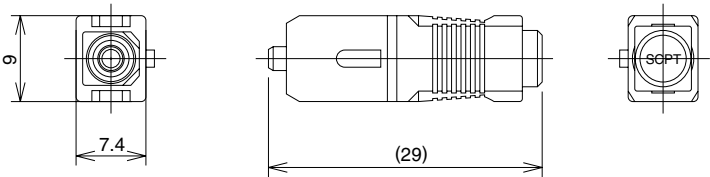
| Part    | Material        |
|---------|-----------------|
| Body    | Synthetic resin |
| Ferrule | Zirconia        |

### ●HMU Plug type

| Part    | Material        |
|---------|-----------------|
| Body    | Synthetic resin |
| Ferrule | Zirconia        |

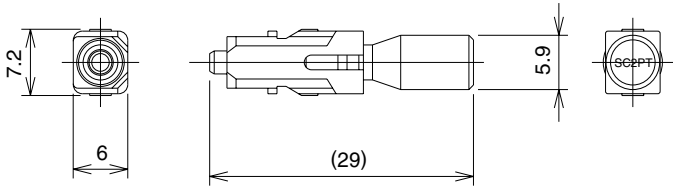
■ Plug type

● SC



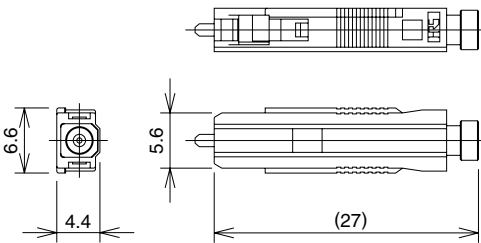
| Part Number    | CL No.        | Return loss | Max. Input Power |
|----------------|---------------|-------------|------------------|
| HSC-TM-P1 (40) | 821-0005-0-40 | ≥40dB       | 30mW             |

● SC - Tool Insertion/Removal



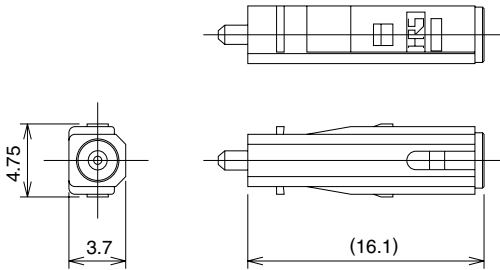
| Part Number     | CL No.        | Return loss | Max. Input Power |
|-----------------|---------------|-------------|------------------|
| HSC2-TM-P1 (40) | 821-0004-8-40 | ≥40dB       | 30mW             |

● MU



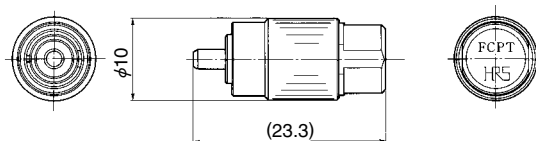
| Part Number     | CL No.        | Return loss | Max. Input Power |
|-----------------|---------------|-------------|------------------|
| HMUA-TM-P2 (60) | 821-0009-1-60 | ≥40dB       | 250mW            |

● MU - Tool Insertion/Removal



| Part Number      | CL No.        | Return loss | Max. Input Power |
|------------------|---------------|-------------|------------------|
| HMUAJ-TM-P2 (60) | 821-0010-0-60 | ≥40dB       | 250mW            |

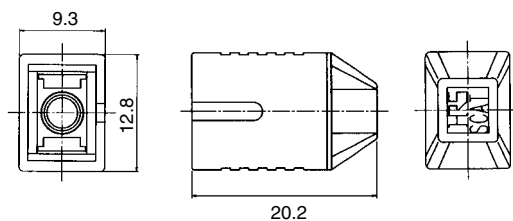
## ●FC



| Part Number     | CL No.        | Return loss        | Max. Input Power |
|-----------------|---------------|--------------------|------------------|
| HRFC-TM-P1 (60) | 821-0006-3-60 | $\geq 45\text{dB}$ | 30mW             |

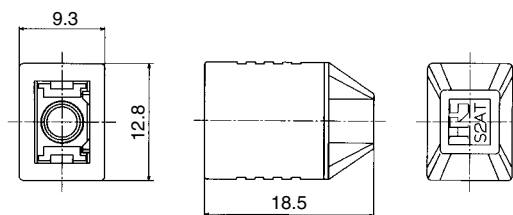
## ■Receptacle type

## ●SC manual coupling / decoupling type



| Part Number    | CL No.        | Return loss        | Max. Input Power |
|----------------|---------------|--------------------|------------------|
| HSC-TM-R1 (40) | 821-0001-0-40 | $\geq 40\text{dB}$ | 10mW             |

## ●SC tool decoupling type



| Part Number     | CL No.        | Return loss        | Max. Input Power |
|-----------------|---------------|--------------------|------------------|
| HSC2-TM-R1 (40) | 821-0003-5-40 | $\geq 40\text{dB}$ | 10mW             |

SC

FC

MU

Harsh  
Environment

Attenuators

Terminators

POF / PCF