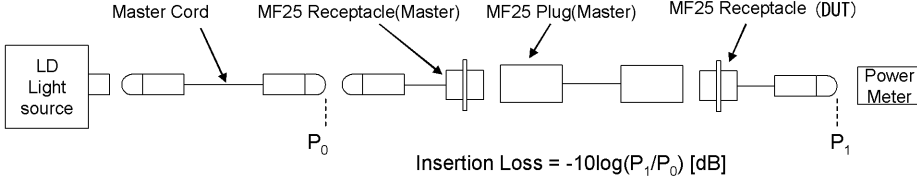
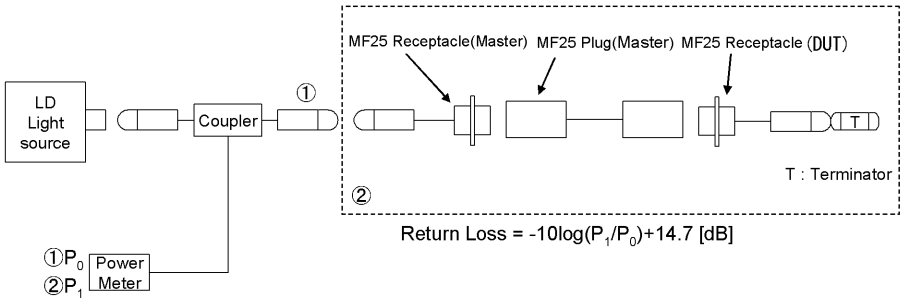


Applicable standard						
Rating	Operating temperature range	-40°C to +75°C (RH95% MAX)		Storage temperature range	-40°C to +85°C (RH95% MAX)	
	Voltage	AC 300 V , DC 420 V		Applicable cable	Y-SSMA-9.5/125 (Optical Fiber)	
	Current	30 A				
Specifications						
Item		Test method		Requirements	QT	AT
Construction						
General examination		Visually and by measuring instrument.		According to drawing.	✓	✓
Marking		Confirmed visually.			✓	✓
Electric · Optical characteristics						
Contact Resistance	Contact shall be measured at DC 1 A.		$\leq 3\text{m}\Omega$	✓	—	
Insulation Resistance	500 V DC		$\geq 1000\text{M}\Omega$	✓	—	
Voltage Proof	1000 V AC for 1 min.		No flashover or breakdown.	✓	—	
Insertion Loss	Measurement at wave length $1310\pm 30\text{nm}$		$\leq 0.4\text{dB}$ (1 mating)	✓	—	
	 Insertion Loss = $-10\log(P_1/P_0)$ [dB]					
Return Loss	Measurement at wave length $1310\pm 30\text{nm}$		$\geq 40\text{dB}$	✓	—	
	 Return Loss = $-10\log(P_1/P_0)+14.7$ [dB]					
Mechanical characteristics						
Contact Insertion and withdrawal forces	$\phi 3.48\pm 0.003$ by steel gauge.		Insertion and withdrawal forces : 1.4 N	✓	—	
Gauge retention Forces (Slit sleeve)	$\phi 1.249\pm 0.0005\text{mm}$ by zirconia gauge.		1.0 to 2.5 N	✓	—	
Connector insertion and withdrawal forces	Measured by applicable connector. (without the screw tightening)		$\leq 100\text{ N}$	✓	—	
Durability	500 times insertion and extractions.		①Contact resistance : $\leq 3\text{m}\Omega$ ②Insertion Loss : $\leq 0.4\text{ dB}$ ③Return Loss : $\geq 40\text{dB}$	✓	—	
COUNT		DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△						
REMARK 1.The qualification test was executed by the harness assembly . 2.A product corresponding to RoHS.			APPROVED	HA. OKANO	08.06.19	
			CHECKED	KS. JOKURA	08.06.19	
			DESIGNED	YH. MASUZAKI	08.06.16	
			DRAWN	YH. MASUZAKI	08.06.16	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-175972-00	
HRS	SPECIFICATION SHEET		PART NO.	MF25S-WRF02-0203		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL709-0208-6-00 △ 1/2		

## SPECIFICATIONS

ITEM		TEST METHOD	REQUIREMENTS	QT	AT
Vibration		Frequency range : 10Hz to 500Hz Single amplitude or acceleration: 1.5mm , 98 m/s <sup>2</sup> Sweep time: 10Hz to 500Hz to 10Hz, for 15 minutes。 Duration : 3 axial directions, 3h each direction	①Electrical discontinuity time: < 10 μ s. ②Insertion Loss (after test) : ≤0.4 dB ③Insertion Loss Range (during test): ≤0.2 dB ④Return Loss(after test) : ≥40dB ⑤No looseness, breakage, cracks	✓	—
Shock		Acceleration : 490m/s <sup>2</sup> (50G) Duration : 11ms Wave form : Half sine wave Number of shocks: 3 both axial directions, 3 times each, total 18 times.		✓	—
Environmental characteristics					
High Temperature Storage (Damp)		+71±2℃, 95±5%RH, 14Days	① Insertion Resistance : ≥100M Ω (At high humidity) ② Insulation Resistance : ≥1000M Ω (At Dry) ③ Insertion Loss : ≤0.4 dB ④ Return Loss : ≥40dB ⑤ No looseness, breakage, cracks	✓	—
Temp. Cycling test		Temp. -40→→→23→→→75→→→23℃ Time 60→60→60→60→60→60→60min 42 cycles	①Insertion Resistance : ≥100M Ω ②Insertion Loss : ≤0.4 dB ③Insertion Loss Range : ≤0.2 dB ④Return Loss : ≥40dB ⑤No looseness, breakage, cracks	✓	—
Dry heat		+85℃, 240h		✓	—
Cold		-40℃,240h		✓	—
Salt mist		+35℃(+1.1/-1.7), 5% Salt water, 500H	No heavy corrosion	✓	—
Gas corrosion test (4 types of gasses are combined)		10 Days	①Insertion Loss : ≤0.4 dB ②Return Loss : ≥40dB ③No looseness, breakage, cracks.	✓	—
Airtightness		Apply air pressure 4.9 kPa for 1 min to inside connector.	No air bubbles inside connector.	✓	—
Resistance to Soldering heat		Soldered at solder temperature, +350±10℃ for Soldering 5±1s.	No deformation of case of excessive looseness of the terminals.	✓	—
Solderability		Soldered at solder temperature, +350±10℃ for immersion duration, 2 to 3 s.	Solder surface to be free from pin-hole, no wetting and other defects.	✓	—
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-175972-00	
HRS	SPECIFICATION SHEET		PART NO.	MF25S-WRF02-0203	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL709-0208-6-00	△ 2/2