Waterproof optical connectors with built-in SC/LC-Duplex

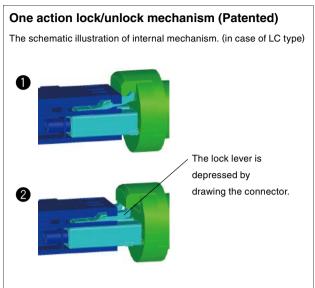
SW20 Series

Waterproof

1 or 2 pos.

Bayonet lock





Features

1. High optical performance and reliability

Internal SC / LC connector is the same structure as a proven standard SC / LC.

2. Bayonet mating operation by one action

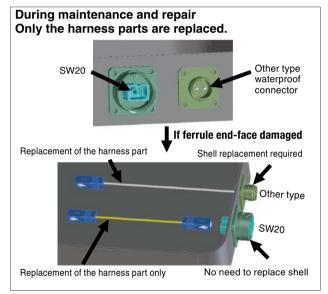
Lock release of SC / LC in conjunction with drawing of outer housing.

3. Harsh environmental use

Waterproof in IP67 and corrosion resistance in 1,000 hours salt mist.

4. Standard SC/LC connector is available for testing.

SC/LC connector is available instead of SW20 plug.



■Product Specifications

Ratings Operating temperature range	-40°C to +85°C	Storage temperature range	-25℃ to +75℃
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	Item	Test method	Requirements	
Construction		Visually and by measuring instrument.	Accoding to drawing.	
		Confirmed visually.		
	Insertion loss	Wavelength 1310±30nm(LD)	≦ 0.4dB	
Optical characteristics	Insertion loss	Wavelength 1550±30nm(LD)	≦ 0.5dB	
(SM)	Return loss	Wavelength 1310±30nm(LD)	≧ 40dB	
	Til	A toroite force to calcie socially for designates at 000N	Insertion loss range: ≤ 0.3dB	
	Tensile strength(axial)	A tensile force to cable axially for 1 minutes at 200N.	No Looseness,breakage,cracks	
	Durability (mating/un-mating) 200 times			
Mechanical characteristics	Vibration	Frequency: 10 to 55Hz, single amplitude of 0.75mm, acceleration of 98.1 m/s², 2 hours in each of the 3 axis.	Insertion loss fluctuation after test:0.3dB max. No visible damage or components dislocation.	
	Shock	Acceleration of 981 m/s², 6 ms duration, half sine shock pulse,10 cycles in each of the 3 axis.		
	Humidity (Temperature/ humidity-cycles)	-10°C to +65°C, humidity: 90% to 100% 168hours. (12H/cycle×14cycle) (Telcordia GR3120-CORE)	1) Insertion loss fluctuation after test:0.3dB max. 2) No visible damage or components dislocation.	
Environmental	Temperature cycle	-40°C to +75°C, 42 cycles,168hours. (8H/cycle×42cycle)(Telcordia GR326-CORE)		
characteristics	Dry heat	240 hours at +85°C		
	Cold	240 hours at -40°C		
	Salt mist	Salt mist :5% and temperature 35℃ or 1000hours.	No corrosion.	
	Water resistance (mating)	Put the product under water for 1min.With air pressure 50kPa.	No air leakage.	

■Material & Finish

Part	PI	lug	Receptacle	
Faii	Material	Finish/Remarks	Material	Finish/Remarks
Haveing	Zinc alloy die casting	Chrome plated	Zino allov	Chrome plated
Housing	Synthetic resin	UL94V-0	Zinc alloy	Chrome plated
Oring/gasket	Synthetic rubber		Synthetic rubber	
SC/LC	Depend on each connector. (Synthetic resin,Zirconia,spring)		Depend on each adapter. (Synthetic resin, Zirconia)	
Spring	Steel wire			
	Phosphor bronze	Nickel plated		
Others (Internal part)	Zinc alloy	Nickel plated		
(internal part)	Stainless steel			

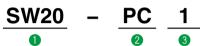
■Ordering information

(1)Plug

$$\frac{SW20}{\bullet} - \frac{SC}{2} \stackrel{P}{\bullet} \frac{T75}{\bullet} - \frac{1}{6}$$

Series name : SW20	4 Cable type T75 : ϕ 7 round cable.
② Connector type :SC···SW20-SC plug	If you would like other cables, please
LC···SW20-LC plug	contact us.
3 Assembly type P: Single ended	5 Suffix
P2 : Double ended	

(2)Plug cap



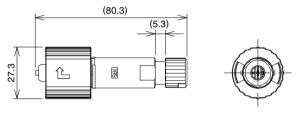
Series name : SW20	
2 Plug cap PC:Plug cap	

3 Suffix 1:Waterproof cap

■Plug

●SC type

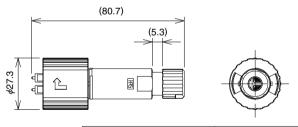




Part Number	CL No.	Remark
SW20-SCPT75-2	717-5019-5-00	Standard type
SW20-SCPT75-3	717-5022-0-00	No tension member kit

●LC type



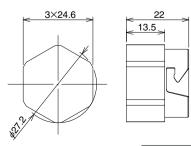


Part Number	CL No.	Remark
SW20-LCPT75-3	717-5508-1-00	Standard type
	717-5508-1-00	with SW20-PC1

■Plug Cap

•waterproof type





Part Number	CL No.
SW20-PC1	717-5500-0-00

■Ordering information

(3)Receptacle

Series name : SW20	3 Receptacle R:Receptacle
2 Connector type: SC···SW20-SC receptage	ele 4 Suffix
LC···SW20-LC recetacle	

(4)Receptacle cap

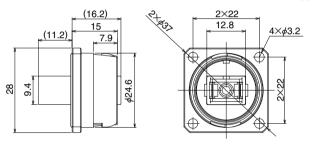
Ī	1 Series name : SW20	Suffix	1:Waterproof cap
Ī	Receptacle cap RC:Receptacle cap		3:Dustproof cap(Not waterproof)

■Receptacle

●SC type



Recommended panel cutouts



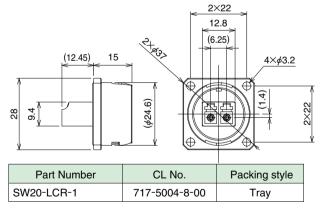
2×22±0.1
\$20+0.2
2×22±0.1
4×M3 (Not penetrated)

Part Number	CL No.	Packing style
SW20-SCR-1(01)	717-5002-2-01	1pcs. /pack
SW20-SCR-1(02)	717-5002-2-02	Tray

Note:LC-type's cutout same as SC-type.

●LC type





■Receptacle Cap

Waterproof type



Part Number	CL No.
SW20-RC1(01)	717-5501-2-01

Dustproof type



Part Number	CL No.
SW20-RC3	717-5504-0

Note: Without waterproof.

■Ordering information

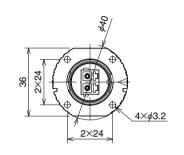
(5)Adaptor

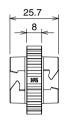
Series name : SW20	3 Adaptor A:Adaptor
② Connector type: LC…SW20-LC adaptor	4 Suffix

■Adaptor

●LC type







Part Number	CL No.
SW20-LCA-1	717-5028-6-00

■Ordering information

(6)Plug Assembly

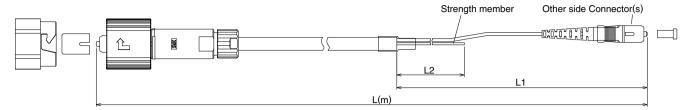
$$\frac{SW20}{\bullet} - \frac{SC}{2} \stackrel{P}{\bullet} \frac{T75}{\bullet} - \frac{1}{6} - \frac{SC}{6} - \frac{L}{6} \stackrel{M}{\bullet} - \frac{1}{2}$$

Series name : SW20	5 Suffix
② Connector type :SC···SW20-SC plug	6 Connector type at the other side
LC···SW20-LC plug	("P2" when SW20 plugs are at both ends)
3 Assembly type P: Single ended	Length in meter
P2 : Double ended	8 Length Unit M: meter
4 Cable type T75 : φ7 round cable.	9 Suffix
If you would like other cables, please contact us.	

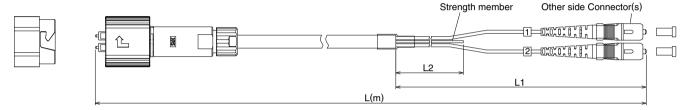
Please contact us in case you need Plug kit only.

■How to Specify Plug Cable Assembly

SW20-SCPT75-2-SC-LM-*

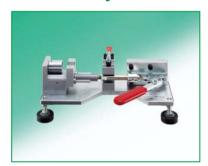


SW20-LCPT75-1-SC-LM-*



Note: Please specify "L", "L1", and "L2" in m.

■Assembly Tool



Part Number	CL No.
SW20-SCLC-T1/CV-MD	902-6065-5



HIROSE ELECTRIC CO.,LTD.

6-3, Nakagawa Chuoh-2-Chome, Tsuzuki-Ku, Yokohama-Shi 224-8540, JAPAN TEL: +81-45-620-3526 Fax: +81-45-591-3726

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