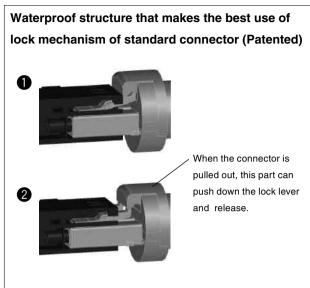
Waterproof optical connectors with built-in standard optical connectors (SC/LC)

SW20 Series





■Features

Waterproof, bayonet lock, standard optical connector (SL/LC)

This waterproof series combines a global standard optical connector (SC/LC) and a standard optical adapter (SC/LC). The plug can be mated to/unmated from the chassis mounted receptacle via a one touch operation using a bayonet lock.

2.Usable in harsh outdoor environments

Connectors can withstand 1000 hour salt spray and IP67 waterproof testing when mated or with cap attached.

3.SW20-SC/SW20-LC common exterior package size

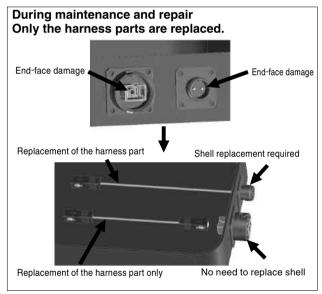
Due to standard optical connector (SC/LC), standard optical connector (SC/LC) and exterior structure dimensions being common to both SW20-SC/SW20-LC, the receptacle chassis mounting hole dimensions and mating/unmating method are also the same.

4.Compatible with standard connector where waterproofing is not required

When connectors are not exposed to harsh environments, such as during testing or assembly, the connection portion of the standard optical connector can be used without specially cable.

5. Easy repair

When the receptacle interface is damaged, the entire receptacle does not need to be replaced. It is only necessary to replace the connection portion of the standard connector inside.



■Product Specifications

Ratings Operating temperature range -40°C to +85°C Storage temperature range -25°C to +75°C

	Item	Test method	Requirements	
Construction	General examnation.	Visually and by measuring instrument.	A cooding to drawing	
Construction	Marking	Confirmed visually.	Accoding to drawing.	
Optical	Insertion loss	Measurement at wave length	SW (≤ 0.4dB 1310nm, ≤ 0.5dB 1550nm)	
	insertion loss	1310±20nm(LD),1550±20nm(LED)	SC (≤ 0.3dB 1550nm, ≤ 0.4dB 1550nm)	
characteristics	Return loss	Measurement at wave length 1310±30nm(LD)	≧ 40dB(SM), 22dB(MM)	
	Tensile strength(axial)	A tensile force to cable axially for 1 minutes at 200N.	Insertion loss range: ≤ 0.3dB	
			No Looseness,breakage,cracks	
	Durability (mating/un-mating)	200 times	Insertion loss fluctuation after test:0.3dB max. No visible damage or components dislocation.	
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.		
	Shock	Acceleration of 981 m/s², 6 ms duration, sine half-wave waveform, 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)	Insertion loss fluctuation after test:0.3dB max. 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℃		
	Cold	240 hours at -40℃		
	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	Plug		Receptacle		
Fait	Material	Finish/Remarks	Material	Finish/Remarks	
Llausina	Zinc alloy die casting	Chrome plated	Zino allov	Ole was made at	
Housing	Synthetic resin	UL94V-0	Zinc alloy	Chrome plated	
Oring/gasket	Synthetic rubber		Synthetic rubber		
SC/LC	Depend on each connector.		Depend on each adapter.		
00/10	(Synthetic resin,Zirconia,spring)		(Synthetic resin,Zirconia)		
Spring	Steel wire				
0.1	Phosphor bronze	Nickel plated			
Others (Internal part)	Zinc alloy	Nickel plated			
(internal part)	Stainless steel				

■Ordering information

(1)Plug Assembly (Plugs can be ordered only as terminated cable assemblies.)

$$\frac{\mathsf{SW20}}{\bullet} \ - \ \frac{\mathsf{SC}}{2} \ \frac{\mathsf{P}}{3} \ \frac{\mathsf{T75}}{\bullet} \ - \ \frac{\mathsf{1}}{5} \ - \ \frac{\mathsf{SC}}{6} \ - \ \frac{\mathsf{LM}}{6} \ - \ \frac{\mathsf{1}}{3}$$

Series name : SW20	⑤ Suffix	
② Connector type :SC···SW20-SC plug	Connector type at the other side	
LC···SW20-LC plug	("P2" when SW20 plugs are at both ends)	
Assembly type P : Single ended	Total length (M) Length (M)	
P2 : Double ended	8 Suffix	
4 Round cable : ϕ 7 round cable.		
If you would like other cables, please contact us.		

(2)Receptacle

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

(3)Receptacle cap

Series name : SW20	Suffix	1:Waterproof cap
Receptacle cap RC:Receptacle cap		3:Dustproof cap

■How to Specify Plug Cable Assembly

