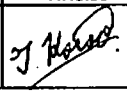
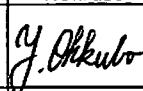
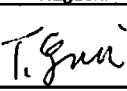
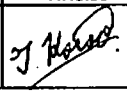
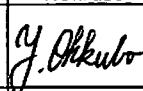
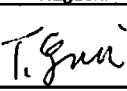
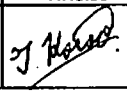
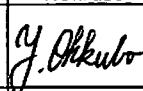
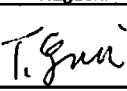


Optical Connector Performance

Connector Type	SC-A type Adaptor with a Shutter, SCF-2A type Adaptor with a Shutter SC-FC type Conversion Adaptor with a Shutter, SCH-4A type Adaptor with a Shutter Mounting and SC-A type Adaptor with a Shutter Mounting and SC-FC type Conversion Adaptor with a Shutter		
Item number	LGC-SA303(), LGC-SF2A303(), LGC-SA303/A112() () LGC-SAE300()/A30() (), LGC-SAE300()/A112, LGC-SH4A313()		
Quotation standard	JIS C5970 F01 Type Connectors for Optical Fiber Cables JIS C5973 F04 Type Connectors for Optical Fiber Cables		
Classification	Test item	Requirement condition	Test method (JIS C 5961-2005)
Structure	No.		
Optical performance	1	Appearance, Construction and Dimensions	Accordance to production drawing and quotation standard. 5. and 6.
	2	Fitting	Engagement without mechanical abnormality. 5.
	3	Insertion Loss	$\leq 0.3\text{dB}$ 7.1 • Kind of light source : Wavelength : 1.3 μm LD • Test method : Method 5
	4	Blocking Ratio	$\geq 15\text{dB}$ —
Mechanical performance	5	Vibration	8.1 • Vibration frequency range : 10~55Hz • Amplitude(one side) : 0.75mm • Test condition : 30 minutes in each X,Y,Z 3 axes
	6	Shock	• There shall be no physical or mechanical damage to the connector. • Loss change quantity during a test : $\leq 0.2\text{dB}$ 8.2 • Peak acceleration : 981m/s ² (100G) • Test condition : 10 times in each X,Y,Z 3 axes
	7	Repetitive Operation	• There shall be no physical or mechanical damage to the connector. 8.3 • Operation times : 500 times
	8	Gauge Retention Force	• Retention force : 2.0N~4.0N (Zirconia) 8.4 Gauge : $\phi 2.499\text{mm} \pm 0.0005\text{mm}$

Classification	Test item		Requirement condition	Test method (JIS C 5961-2005)																
	No.																			
Mechanical performance	9	Engagement and Separation Force	<ul style="list-style-type: none"> Engagement force : $\leq 19.6N$ Separation force : $\leq 19.6N$ (Only as for as SC type plug) 	8.13																
	10	Connection Strength (Combination Part)	<ul style="list-style-type: none"> $\geq 69N$ (Only as for as SC type plug) 	8.6																
	11	Opening and Shutting (Shutter)	<ul style="list-style-type: none"> There shall be no physical or mechanical damage to the connector. 	<ul style="list-style-type: none"> Operation times : 500 times 																
Environmental performance	12	Salt mist	<ul style="list-style-type: none"> There shall be no corrosion to the connector. 	9.1 <ul style="list-style-type: none"> Test duration : 48h Density : $5\% \pm 1\%$ 																
	13	Change of Temperature	<ul style="list-style-type: none"> There shall be no physical or mechanical damage to the connector. Loss change quantity during a test : $\leq 0.2dB$ 	9.2 <ul style="list-style-type: none"> Temperature : $-25^{\circ}C \sim +70^{\circ}C$ Test type : Nb Test duration : 2h/cyc. ,100cyc. 																
	14	Humidity (cycle)		9.4 <ul style="list-style-type: none"> Temperature : $-10^{\circ}C \sim +25^{\circ}C \sim +65^{\circ}C$ Humidity : $93\% \pm 3\%$ Test duration : 24h/cyc. ,10cyc. 																
	15	Dry Heat		9.5 <ul style="list-style-type: none"> Temperature : $+85^{\circ}C$ Test duration : 240h 																
	16	Cold		9.6 <ul style="list-style-type: none"> Temperature : $-40^{\circ}C$ Test duration : 240h 																
Note	<ul style="list-style-type: none"> Insertion loss test is measured by master cord. 			<table border="1"> <tr> <td></td> <td>Prepared</td> <td>Checked</td> <td>Approved</td> </tr> <tr> <td>By</td> <td>T.Koiso</td> <td>Y.Ohkubo</td> <td>T.Eguchi</td> </tr> <tr> <td>Signature</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Honda Tsushin Kogyo Co.,Ltd. Tokyo Japan</td> <td colspan="2">Date : Jul,18,2013</td> </tr> </table>		Prepared	Checked	Approved	By	T.Koiso	Y.Ohkubo	T.Eguchi	Signature				Honda Tsushin Kogyo Co.,Ltd. Tokyo Japan		Date : Jul,18,2013	
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