

Apr.1.2020 Copyright 2020 HIROSE ELECTRIC CO., LTD. All Rights Reserved.  
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△	5 RE-S-00357	T.Y	Y.M	01.10.20	△				
△					△				
APPLICABLE STANDARD		・ JIS C 5973 (F04 TYPE CONNECTORS FOR OPTICAL FIBER CABLES) ・ No. 520064 "SPECIFICATION OF OPTICAL ATTENUATOR TYPE SC" BY NTT CO.							
RATING	OPERATING TEMPERATURE RANGE	-40°C ~ 75°C			STORAGE TEMPERATURE RANGE	-40°C ~ 85°C			
	POWER	250 mW			APPLICABLE CABLES	SM			
<b>SPECIFICATIONS</b>									
ITEM		TEST METHOD (JIS C 5961)			REQUIREMENTS			QT	AT
<b>CONSTRUCTION</b>									
VISUAL EXAMINATION		INSPECTION OF APPEARANCE, DIMENSION AND MASS			ACCORDING TO DRAWING			○	○
MARKING		CONFIRMATION VISUALLY			ACCORDING TO DRAWING			○	○
<b>OPTICAL CHARACTERISTICS</b>									
ATTENUATION		MEASUREMENT AT A POINT WITHIN WAVELENGTH 1310±30nm AND A POINT WITHIN WAVELENGTH 1550±30nm△			0, 1, 2±0.5 3, 4, 5, 6±0.6 dB 10±1dB 15, 20, 25±1.5dB 30±2.5dB			○	○
RETURN LOSS		MEASUREMENT AT A POINT WITHIN WAVELENGTH 1310±30nm AND A POINT WITHIN WAVELENGTH 1550±30nm△			≥40dB			○	○
POWER TEST		POWER:250mW, TIME:100 HOURS LASER:LD (WAVELENGTH:1470nm)			CHANGE IN ATTENUATION : ±0.2dB			○	-
<b>MECHANICAL CHARACTERISTICS</b>									
ENGAGEMENT AND SEPARATION FORCES		ENGAGEMENT AND SEPARATION FORCES AT 50mm/s			ENGAGEMENT FORCE: ≤19.6N SEPARATION FORCE: ≤19.6N			○	-
GAUGE RETENTION FORCE		ZIRCONIA GAUGE AT φ 2.499±0.0005mm			2.0N~3.9N			○	-
MATING DURABILITY		INSERTION AND EXTRACTION NUMBER:500			①ATTENUATION AND RETURN LOSS SHALL BE SATISFIED BEFORE AND AFTER THE TEST. ②NO BREAKAGE, CRACK OR LOOSENESS ON COMPONENTS			○	-
VIBRATION		3 HOURS AT AN AMPLITUDE OF 1.5mm WITH THE FREQUENCY RANGE 10~55Hz IN EACH OF THREE MUTUALLY PERPENDICULAR PLANE						○	-
FLEX TEST		8.82N LOAD, 100 CYCLES △ TELCORDIA GR-910-CORE						○	-
TWIST TEST		13.23N LOAD, 10 CYCLES △ TELCORDIA GR-910-CORE						○	-
SIDE PULL		12.25N LOAD, 90° ANGLE, ACTIVE TELCORDIA GR-910-CORE △						○	-
IMPACT TEST		3 TIMES IN EACH OF THREE MUTUALLY PERPENDICULAR AXIS WITH THE ACCELERATION 981m/s <sup>2</sup> .			○	-			
<b>ENVIRONMENTAL CHARACTERISTICS</b>									
COMPOSITE TEMPERATURE -HUMIDITY CYCLIC TEST		HUMIDITY:90~96% TEMPERATURE:-10~65°C TIME:480 HOURS (20 CYCLES)			①ATTENUATION AND RETURN LOSS SHALL BE SATISFIED BEFORE AND AFTER THE TEST. ②NO BREAKAGE, CRACK OR LOOSENESS ON COMPONENTS			○	-
CHANGE OF TEMPERATURE		TEMP. :-40→-40→80→80→80~-40°C TIME : 60→ 180 →60→ 180min CYCLES:100 CYCLES						○	-
DRY HEAT-HIGH TEMPERATURE ENDURANCE		TEMPERATURE:85°C , TIME:500 HOURS						○	-
COLD		TEMPERATURE:-40°C , TIME:500 HOURS						○	-
SALT MIST		SALT MIST:5%, TIME:48 HOURS						○	-
REMARKS					NO CORROSION				
					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
					T. YOSHIDA 01, 10, 9	T. YOSHIDA 01, 10, 9	Y. MIYAKE 01, 10, 9	Y. MIYAKE 01, 10, 9	
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test									
<b>HRS</b> HIROSE ELECTRIC CO., LTD.				<b>SPECIFICATION SHEET</b>			PART NO. HSC-AT11K-A**		
CODE NO. (OLD)			DRAWING NO. ELC4-140867			CODE NO. CL820			1/1

