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 In case that the application demands a high level of reliability, such as automotive,
 please contact a company representative for further information.

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			

SPECIFICATIONS

ITEM	TEST METHOD (JIS C 5961)	REQUIREMENTS	QT	AT
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CONSTRUCTION

VISUAL EXAMINATION	INSPECTION OF APPEARANCE, DIMENSION AND MASS	ACCORDING TO DRAWING	○	○
MARKING	CONFIRMATION VISUALLY	ACCORDING TO DRAWING	○	○

OPTICAL CHARACTERISTICS

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	○	-

MECHANICAL CHARACTERISTICS

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 ² .	○	-	

ENVIRONMENTAL CHARACTERISTICS

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	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

HRS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO. HSC-AT11K-A**	
CODE NO. (OLD)	DRAWING NO. ELC4-140867		CODE NO. CL820	1/1	

