

FAKRA PLUG INTERFACE

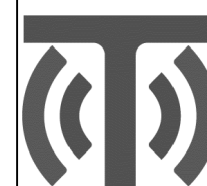
FAKRA JACK INTERFACE

TECHNICAL CHARACTERISTICS

IMPEDANCE	50Ω NOMINAL
FREQUENCY RANGE	DC ~ 6 GHz (OPTIMIZED FOR DC - 4 GHz)
V.S.W.R: DC ~ 2 GHz	1.40 MAX
V.S.W.R: 2 GHz ~ 4 GHz	1.50 MAX
INSERTION LOSS	< 0.3 dB MAX FROM DC ~ 3 GHz
INSULATION RESISTANCE	1000 M Ω MIN
CONTACT RESISTANCE (CENTRE + OUTER CONTACT)	< 40 M Ω
DIELECTRIC WITHSTANDING VOLTAGE	> 800 VRMS (INTERFACE ONLY; MAY BE CABLE LIMITED)
DURABILITY (MATING)	100 MIN
PLASTIC HOUSING - ENGAGEMENT FORCE	<40 N (SINGLE FAKRA)
PLASTIC HOUSING - DISENGAGEMENT FORCE	>35 N (SINGLE FAKRA)
CEBLE RETENTION FORCE	> 110 N
CODING	14 MECHANICAL AND COLOURED CODINGS
INTERFACE	USCAR-18, DIN
TEMPERATURE RANGE (OPERATING)	-40°C ~ +100°C
THERMAL SHOCK	MIL-STD-202, METHOD 107, COND B; (-55°C / +125°C) OR USCAR-2, PARA 5.6.1
VIBRATION	MIL-STD-202, METHOD 204, COND B; (15g) OR USCAR-2, PARA 5.4.6
SHOCK	MIL-STD-202, METHOD 213, COND B; (75g, 6ms, 1/2 SINE) OR USCAR-2, PARA 5.4.6

COMPONENT	MATERIAL	PLATING
PLASTIC HOUSING - JACK	NYLON, PBT OR PPE	
PLASTIC HOUSING - INLINE PLUG	NYLON OR PBT	
PLASTIC HOUSING - PCB PLUG	NYLON	
SECONDARY LOCKING CLIP	PBT	
CENTRE CONTACT - JACK	BERYLLIUM COPPER OR PHOSPHOR BRONZE	GOLD
CENTRE CONTACT - PLUG	BRASS OR PHOSPHOR BRONZE	GOLD
BODY - CABLE TYPE	BRASS, ZINC ALLOY	NICKEL
BODY - SOLDER TYPE	BRASS, ZINC ALLOY	NICKEL, GOLD, TIN
RETAINER RING	BERYLLIUM COPPER	
FERRULE	COPPER ALLOY	NICKEL
INSULATOR	TFE OR TPX	

GENERAL NOTES:  
ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE



SCALE: DRAWING  
NOT TO SCALE

DO NOT SCALE  
IF IN DOUBT ASK

DWN: RO    CHK: DP

A	ISSUED	RO	17.04.15
REV	DESCRIPTION	BY	DATE

PROJECT	TELCO ANTENNAS
TITLE	FAKRA TECHNICAL SPECIFICATIONS
DRG. No.	TA-RC-TS13
REV.	A