CAT6 CABLE

ST-CIP24-305 (305 mtr) & ST-CIP24-100 (90 mtr)

DESCRIPTION	1/0.490 MM X 4 PAIR CAT6 UTP PVC JACKETING NETWORKING CABLE		
CONDUCTOR	**CONDUCTOR MATERIAL**	ANNEALED BARE COPPER	
	NO OF STRANDS	1 Nos	
	CONDUCTOR (MM)	0.490 ± 0.015 mm	
	OPERATING TEMPERATURE	-150C to 700C	
INSULATION	**MATERIAL**	HDPE (High Density Polyethylene)	
	THICKNESS (MM)	0.20 mm (Nominal)	
	DIAMETER (MM)	1.00 ± 0.10 mm	
PAIR TWISTING	**# PAIR SEQUENCE**	Pair-1	Blue + White-Blue
		Pair-2	Orange + White-Orange
		Pair-3	Green + White-Green
		Pair-4	Brown + White-Brown
LAYING STAGE	**4 PAIR LAID UP**	All of the 4pair twisted together with Seperator i.e. ⊕ Cross Filler	
OUTER SHEATH	**MATERIAL**	PVC	
	THICKNESS (MM)	0.50 mm ± 0.05MM	
	DIAMETER (MM)	5.60 ± 0.30 mm	
	COLOUR	Grey	
ELECTRICAL PARAMETER	**CONDUCTOR RESISTANCE AT 200C**	98.00 Ω/Km (Maximum)	
	RESISTANCE DC UNBALANCE	5% (Maximum)	
	INSULATION RESISTANCE	>367.0 MΩ/KM AT 500 VDC	
	DIELECTRIC STRENGTH	0.700 KV AC for 1 Minute (Withstood)	
	SPARK TEST	1.0 KV AC for 0.15 Seconds (Withstood)	
	CAPACITANCE TO 1KHz (Approx)	5.6nF/100m	
	NORMAL VELOCITY OF PROPAGATON	0.69	
	IMPEDANCE	100 ± 15% Ω	
	DELAY SKEW	< 45 nS/100m	
MECHANICAL PERFORMANCE	**INSULATION & SHEATH (UNAGED)**	**INSULATION**	**PVC JACKET**
	TENSILE STRENGTH	13.79 N/mm2 Min.	12.50 N/mm2 (Minimum)
	ELONGATION	300% (Minimum)	150% (Minimum)
	HOT DEFORMATION TEST (PVC Jacketing)	50% Maximum (80 ± 20C for 4h)	
	HEAT SHOCK TEST (PVC Jacketing)	150 ± 20C X 1 hrs (No Cracks)	
	COLD BEND TEST (PVC Jacketing)	-15 ± 20C for 2-3 hrs (No Cracks)	
	BENDING RADIUS TEST	8 Times of Overall Dia (No Cracks)	
FLUKE Tested : 90 mtr			

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