

SPECIFICATION: UTP CAT5e 0.51mm×4P +7/0.36×2 power cable (UTP+EN+MSG)			CUSTOMER	PART NO
ITEM		SPECIFICATION	CONSTRUCTION D.W.G	
CONDUCTOR 1	AWG	24AWG		
	MATERIAL	Annealed copper		
	COND.SIZE	1/0.51±0.005mm		
CONDUCTOR 2	AWG	18AWG		
	MATERIAL	Annealed copper		
	COND.SIZE	7/0.36±0.005mm		
INSULATION 1	AVG.THICK	0.20mm		
	MATERIAL	HDPE		
	LD	0.91±0.02mm		
INSULATION 2	AVG.THICK	0.25mm		
	MATERIAL	HDPE		
	LD	1.60±0.02mm		
TWISTED CORES 1	OD.	1.82±0.02mm	MARKING: TIA/EIA 568.B.2&IEC/ISO 1180 1	
TWISTED CORES 2	OD.	3.20±0.03mm		
STRENGTH MEMBER	GALVANIZED STEEL	7*0.4mm		
Rip cord	MATERIAL	Nylon cord		
	SIZE	1/500D		
SHEATH	MIN.THICK	0.7mm		
	MATERIAL	PVC		
	COLOR	Black		
	O.D	5.6*4.6±0.2mm		

COLOR CODE	
1. white/blue-blue , 2. white/orange-orange, 3. white/green-green, 4. White/Brown-Brown	

ELECTRICAL CHARACTERISTICS	PHYSICAL MECHANICAL PROPERTIES
1. Conductor D.C. resistance ≤ 9.8 Ω/100m	1. Conductor elongation ≥15%
2. Imbalance resistance ≤ 2.5%	2. Tensile strength of insulation: ≥16%
3. Insulation resistance ≥ 5000 M Ω •km	3. Insulation elongation ≥400%
4. Capacitance ≤ 5.6 nF/100m	2. Tensile strength of sheath: ≥12. 5MPa
5. Imbalance of capacitance ≤ 330 pF/100m	4. Sheath elongation ≥400%
6. Dielectric strength > 1 kv/min	
7. Characteristic impedance 100±15 Ω	
powercable DC resistance at 20℃ ≤ 28 Ω/km	