



Specification:

ITEM		UNIT	Description			
Conductor	Wire No.	/	4P			
	Material	/	Bare Copper			
	Size	AWG	23			
	Diameter	mm	0.55±0.01			
Insulation	Material	/	HDPE			
	Colour	/	Blue/White- Blue	Orange/White -Orange	Green/White- Green	Brown/White- Brown
	Diameter	mm	0.96±0.05			
Seperator	/	/	Yes			
Tape Wrap	Size	mm	PET 100% Coverage			
Rip cord	/	/	Yes			
Jacket	Material	/	PE			
	Colour	/	BK			
	Diameter	mm	6.0±0.3			
	Thickness	mm	0.5±0.1			

Mechanical properties:

Operating temperature	-20~75°C
Minimum bending radius	8×Cable OD
Jacket Elongation at break	≥350%
Jacket Tensile strength	≥9.7MPa
Jacket Aging conditions	100°CX48h
Jacket Elongation at break After Aging	≥75% Before Aging
Jacket Tensile Strength After Aging	≥75% Before Aging
Low temperature winding experiment	-20°Cx4h No visible cracks

Electrical properties:

Working capacity	≤5.6nF/100m(@1kHz)
Capacitive unbalance to earth	≤160pF/100m
Delay skew	45ns/100m
Maximum conductor resistance	93.8Ω/km
The maximum electric balance of the conductor	5% (@20°C)
Minimum insulation resistance	5000MΩ.km

High Frequency Electrical performance:(at 20°C 100m)

Frequency (MHz)	ATT (≤dB)	NEXT (≤dB)	PSNEXT (≤dB)	ELFEXT (≤dB)	PS ELFEXT (≤dB)	RL (≤dB)	Note
1.00	3.0	65.0	62.0	63.3	60.3	19.0	Spread out 100m cable and test it
4.00	4.0	63.0	60.5	51.2	48.2	19.0	
8.00	5.7	58.2	55.6	45.2	42.2	19.0	
10.00	6.3	56.6	54.0	43.3	40.3	19.0	
16.00	8.0	53.2	50.6	39.2	36.2	18.0	
20.00	9.0	51.6	49.0	37.2	34.2	17.5	
25.00	10.1	50.0	47.3	35.3	32.3	17.0	
31.25	11.4	48.4	45.7	33.4	30.4	16.5	
62.50	16.5	43.4	40.6	27.3	24.3	14.0	
100.00	21.3	39.9	37.1	23.3	20.3	12.0	
200.00	31.5	34.8	31.9	17.2	14.2	9.0	
250.00	35.9	33.1	30.2	15.3	12.3	8.0	

Ordering Info:

Part No.	Description
100101PE	Outdoor Unshielded Twisted Pair Cable (U/UTP), Category 6, 4 Pairs, solid 23AWG, PE jacket, 305m Black color