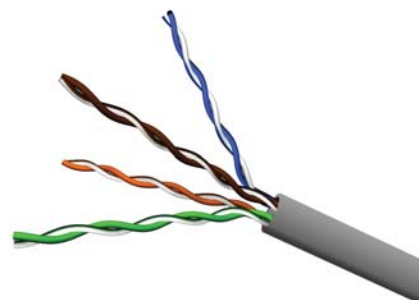


FEATURES AND BENEFITS:

Category 5e. 4 pair UTP with different twisting rate for each pair.

Small outside diameter, high flexibility. Available in 305m lengths and packed in carton boxes for easy transportation and laying in conduit path. The cable does not feed fire and goes out when the source of fire is removed. Recommended as a basic product for horizontal cabling.



Parameter	Unit	Description
Conductor size	mm	24 AWG (0.51 mm)
Insulated conductor diameter	mm	≤ 1.0
Single pair shield	None	
Number of pairs	pcs	4
Cable shield	None	
Outside cable size	mm	≤ 5.5
Temperature range	°C	during installation: 0 to +50 operational: -20 to +60
Min bending radius during installation:		8 x outside cable size
Min bending radius of installed cable:		4 x outside cable size
Max tension	N	≥ 400
Sheath		FR-PVC (IEC 332.1)
Sheath colour		Grey
Colour coding		
	Pair 1:	White-blue/Blue
	Pair 2:	White-orange/Orange
	Pair 3:	White-green/Green
	Pair 4:	White-brown/Brown
Length margin	%	± 1
Gross weight	kg	10,75

Part number	Product name
CAA-00184	UTP Category 5e PVC 4 Pair Cable, 305m

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**ELECTRIC PARAMETERS:**

Parameter	Unit	MHz	Values
D.C. Loop Resistance	Ω/km	d.c.	≤ 19.2
NVP		$1 \leq f \leq 125$	0.69c
PSNEXT - min	dB/100 m	$0.772 \leq f \leq 125$	$64-15 \cdot \log(f/0.772)$
NEXT - min	dB/100 m	$0.772 \leq f \leq 125$	$67-15 \cdot \log(f/0.772)$
PSELFEXT - min	dB/100 m	$1 \leq f \leq 125$	$63-20 \cdot \log(f/0.772)$
ELFEXT - min	dB/100 m	$1 \leq f \leq 125$	$66-20 \cdot \log(f/0.772)$
Maximum resistance unbalance	%	d.c.	≤ 2
Maximum capacitance unbalance			
pair to ground	pF/km	0.0008 or 0.001	≤ 1600
Insulation resistance	M Ω km	d.c.	≥ 150
Dielectric strength			
cond./cond. and		d.c.	$\geq 1 \text{ kV, 1 min. or } 2.5 \text{ kV, 2 s}$
cond./shield		a.c.	$700 \text{ kV, 1 min. or } 1.7 \text{ kV, 2 s}$
RL (Return Loss) - min	dB/100 m	$1 \leq f \leq 10$	$20+5 \cdot \log(f)$
		$10 \leq f \leq 20$	25
		$20 \leq f \leq 100$	$25-7 \cdot \log(f/20)$
Characteristic impedance	Ω	$1 \leq f \leq 125$	100 ± 15
Attenuation - max	dB/100 m	$1 \leq f \leq 125$	$1.967 \cdot \sqrt{f} + 0.023 \cdot f + 0.05/\sqrt{f}$
Delay - max	ns/100 m	$1 \leq f \leq 125$	$534 + (36/f)$
Delay skew - max	ns/100 m	$1 \leq f \leq 125$	45

Part number	Product name
CAA-00184	UTP Category 5e PVC 4 Pair Cable, 305m

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