

# Category 6 U/UTP Cables

## Category 6 UTP PVC Cables

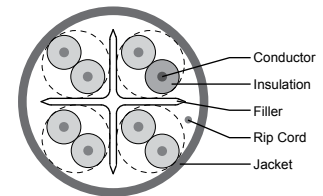
The Actassi 4-Pair Category 6 Cable is a superior product delivering excellent network performance when used in conjunction with other Actassi Category 6 products.

The Category 6 cable consists of 4 pairs of solid insulated copper 24AWG and is UL listed with a CM fire rating. It is designed for use in horizontal cabling situations and supplied in 305m (1,000ft) easy pull out boxes.

The Category 6 cable provides a significant margin above the minimum Category 6 Near End Crosstalk NEXT requirement of ANSI/TIA and ISO/IEC 11801.



**ACT4P6UCM3RBBU4**



## TECHNICAL INFORMATION

### Physical Specification

Flammability Test	<b>CM</b>
Reference standards	<b>ANSI/TIA 568-C.2 &amp; ISO/IEC11801</b>

## CONSTRUCTION

### Cable

Conductor	<b>Solid Bare Copper</b>
AWG	<b>24</b>
Insulation	<b>PE</b>
Average Thickness (mm)	<b>0.19mm</b>
Insulation Diameter (±0.10mm)	<b>0.88 ± 0.10mm</b>
Filler	<b>PE</b>
Jacket	<b>FR-PVC</b>
Average Thickness (±0.05mm)	<b>0.50 ± 0.01mm</b>
Outer Diameter (±0.2mm)	<b>5.7mm</b>
Rip Cord	<b>Yes</b>

## PRODUCT FEATURES

- Centre filler to maintain pair twisting and optimum NEXT and ELFEXT performance.
- 24AWG conductors for improved Insertion Loss performance.

## CUSTOMER BENEFITS

- Exceeds Category 6 ANSI/TIA -568-C.2 and ISO/IEC 11801 Standards.
- Supports Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond.

## ELECTRICAL CHARACTERISTICS

Freq. (MHz)	Insertion Loss. Max. (dB)	NEXT (dB) Min.	PSNEXT (dB) Min.	ACR-N (dB) Min.	PS ACR-N (dB) Min.	ACR-F (dB) Min.	PS ACR-F (dB) Min.	RL (dB)
1	1.9	65	62	62	59	64.2	61.2	19.1
4	3.5	64.1	61.8	60.6	58.3	52.1	49.1	21
8	5	59.4	57	54.4	52.1	46.1	43.1	21
10	5.5	57.8	55.5	52.3	49.9	44.2	41.2	21
16	7	54.6	52.2	47.6	45.2	40.1	37.1	20
20	7.9	53.1	50.7	45.2	42.8	38.2	35.2	19.5
25	8.9	51.5	49.1	42.7	40.2	36.2	33.2	19
31.25	10	50	47.5	40	37.6	34.3	31.3	18.5
62.5	14.4	45.1	42.7	30.8	28.3	28.3	25.3	16
100	18.6	41.8	39.3	23.3	20.7	24.2	21.2	14
200	27.4	36.9	34.3	9.6	7	18.2	15.2	11
250	31.1	35.3	32.7	4.2	1.6	16.2	13.2	10

Input Impedance	<b>100±6Ω @ 1-250 MHz</b>
Delay Skew	<b>&lt;45ns /100mtr</b>
DC Resistance Unbalanced (%)	<b>&lt;5</b>
Conductor DC Resistance 20 °C ( Ohms/Km)	<b>≤ 9.38 Ω/100m Max.</b>
Nominal Velocity of Propagation (NVP)	<b>69%</b>

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	<b>-20 °C to +70 °C</b>
Storage Temperature	<b>20 °C to +70 °C</b>

CATALOGUE NUMBER	DESCRIPTION
<b>PVC Cables</b>	
<b>ACT4P6UCM3RBBU4</b>	Category 6 4 pair UTP Cable 305m, CM Blue