

# Cables

## Category 5e U/UTP cables

### Category 5e UTP PVC cables

The Actassi Category 5e 4-pair cable consists of 24 AWG (0.51 mm) solid-copper conductors insulated with high-density polyethylene. The insulated conductors are tightly twisted into pairs and covered with PVC material.

The Actassi Category 5e 4-pair cable provides excellent high-speed transmission, is certified to 100 MHz and supports applications such as 155 Mb/s ATM, 622 Mb/s ATM and IEEE 802.3 1000 Base-T (Gigabit ethernet) standard, using parallel transmission technology. This product is UL listed with a CM or CMR fire rating.

### Category 5e UTP LSZH cables

The Actassi Category 5e low smoke zero halogen (LSZH) 4-pair cable consists of 24 AWG (0.51 mm) solid-copper conductors insulated with high-density polyethylene. The insulated conductors are tightly twisted into pairs and covered with a non-halogen high-density polyethylene jacket made from low smoke zero halogen compounds.

The Actassi Category 5e LSZH 4-pair cable provides excellent high-speed transmission, and certified to 155 MHz and supports applications such as 155 Mb/s ATM, 622 Mb/s ATM and IEEE 802.3 1000 Base-T (Gigabit ethernet) standards, using parallel transmission technology. This product is UL listed with a CM fire rating.

The Actassi Category 5e LSZH 4-pair cable is IEC tested for low smoke and non-halogen emission and passes the following tests:

- IEC 60754 part 2, non-halogen based on pH and conductivity measurements
- IEC 61034 part 2, smoke emission
- IEC 60332-1, flammability and fire retardant.

### Product features

- Compliant with enhanced Category 5 standard.

### Customer benefits

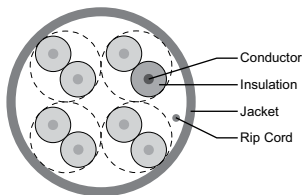
- Ideal for high-speed networks and broadband distribution in the premise
- Suits horizontal and vertical wiring
- Packaged in an easy pull out box.

204P5PVC8\_Cat5e UTP PVC



ACT4P5EULS3RBBU

Cat5e UTP Cable.dwg



Description	Ref. No
<b>PVC cables</b>	
Category 5e 4 pair UTP cable 305 m, CM	<b>ACT4P5EUCM3RBxx</b>
Category 5e 4 pair UTP cable 305 m, CMR	<b>ACT4P5EUCR3RBxx</b>
<b>LSZH cables</b>	
Category 5e 4 pair UTP cable 305 m, LSZH	<b>ACT4P5EULS3RBxx</b>

Where **xx** denotes the color of jacket: BU = blue, WE = white, BK = black, GY = grey, GR = green, RD = red, YL = yellow.

## Technical specifications

### Physical specifications

Rated temperature (°C)	75
Flammability test	CMR, CM, LSZH
Reference standards	UL subject 444, ANSI/TIA/EIA-568B & ISO/IEC 11801

### Construction

Conductor	Solid bare copper
AWG	24
Conductor dia. nom. (mm)	0.51
Insulation	PE
Average thickness (mm)	0.2
Min. point thickness (mm)	0.16
Insulation diameter (± 0.10 mm)	0.925
Twisting lay length (mm)	30 underneath
Cabling lay length (mm)	200 underneath
Jacket	PVC
Average thickness (± 0.05 mm)	0.45
Min. point thickness (mm)	0.43
Outer diameter (± 0.2 mm)	4.8
Rip cord	Yes

### Electrical characteristics

1.0-100 MHz input impedance (ohms)	100 ± 6
1.0-250 MHz delay skew (ns/100 m)	≤ 45
Pair-to-ground capacitance unbalance (pf/100 m)	≤ 330
Max. conductor DC resistance 20°C (ohms/km)	93.8
Resistance unbalance (%)	≤ 5

Frequency MHz	Attenuation dB/100 m	NEXT dB/100 m	PSNEXT dB/100 m	ACRF dB/100 m	PSACRF dB/100 m	RL dB/100 m	DELAY ns/100 m
1	2.0	68.3	65.3	66.8	63.8	21	570.0
4	4.1	59.3	56.3	54.8	51.8	24	552.0
8	5.8	54.8	51.8	48.7	45.7	25.5	546.7
10	6.5	53.3	50.3	46.8	43.8	26	545.4
16	8.2	50.2	47.2	42.7	39.7	26	543.0
20	9.3	48.8	45.8	40.8	37.8	26	542.0
25	10.4	47.3	44.3	38.8	35.8	25.3	541.2
31.25	11.7	45.9	42.9	36.9	33.9	24.6	540.4
62.5	17.0	41.4	38.4	30.9	27.9	22.5	538.6
100	22.0	38.3	35.3	26.8	23.8	21.1	537.6