



23AWG CAT6 UTP 4-Pair Data Cable -305m Smart Reel Box

03JCAT6-BL	Blue
03JCAT6-GN	Green
03JCAT6-PR	Purple
03JCAT6-RD	Red
03JCAT6-YL	Yellow

FEATURES:

- High-Performance CAT6 UTP Cable (23AWG) — ensures stable 10Gbps data transfer
- Smart Reel Box — includes an internal reel and frame system for smooth, tangle-free cable pulls
- Available in 5 Outer Sheath Colours — supports structured cabling identification
- Centre Crosshair Spline — separates pairs to reduce crosstalk and maintain high data integrity
- Thicker Outer Insulator — enhances protection during installation through walls and conduits
- Full Bare Copper Conductors — compliant with S008 specification for superior conductivity
- Approved Cable — RCM Approved for Australian standards compliance

TECHNICAL PERFORMANCE (@100m)

FREQUENCY (MHz)	RL ≥dB	ATT ≥dB	NEXT ≥dB	PHRASE DELAY ≥ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20.0	2.03	74.3	570.00	72.3	68.0	65.0
4.0	23.0	3.78	65.3	552.00	63.3	56.0	53.0
8.0	24.5	5.32	60.8	546.73	58.7	49.9	46.9
10.0	25.0	5.95	59.3	545.38	57.2	48.0	45.0
16.0	25.0	7.55	56.2	543.00	54.2	43.9	40.9
20.0	25.0	8.47	54.8	542.05	52.8	42.0	39.0
25.0	24.3	9.51	53.3	541.20	51.3	40.0	37.0
31.25	23.6	10.67	52.0	540.44	49.9	38.1	35.1
62.5	21.5	15.38	47.4	538.55	45.4	32.1	29.1
100	20.1	19.80	44.3	537.60	42.3	28.0	25.0
200	18.0	28.98	39.8	536.54	37.8	22.0	19.0
250	17.3	32.85	38.3	536.27	36.3	20.0	17.0

PACKAGING 305m Smart Reel Box

WARRANTY 1 Year

FOR MORE INFORMATION:

☎ 1300 601 915 ✉ orders@bitek.com.au 🌐 www.bitek.com.au

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GENERAL SPECIFICATIONS

CABLE TYPE	Category 6 (CAT6) Unshielded Twisted Pair (UTP)
CABLE GAUGE	23 AWG
COLOUR	Blue/Green/Purple/Red/Yellow
LENGTH	305m
RCM APPROVED	Yes

CONSTRUCTION SPECIFICATIONS

CONDUCTOR NOMINAL DIAMETER	0.56 ± 0.005 mm
CONDUCTOR MATERIAL	Solid Bare Copper
INSULATION NOMINAL DIAMETER	1.0 ± 0.03 mm
INSULATION MATERIAL	High-Density Polyethylene (HDPE)
FILLER MATERIAL	Polyethylene Cross Separator
RIPCORDER	Nylon (Optional)
JACKET MATERIAL	PVC (Colour: Blue/Green/Purple/Red/Yellow)
JACKET THICKNESS	0.50 mm
OVERALL DIAMETER (O.D.)	6.2 ± 0.4 mm

ELECTRICAL SPECIFICATIONS (@20°C)

IMPEDANCE (1-250 MHz)	100 ± 15 Ω
DELAY SKEW (1-250 MHz)	≤ 45 ns/100 m
DC RESISTANCE	≤ 7.38 Ω/100 m
DC CONDUCTOR RESISTANCE UNBALANCE	≤ 5%
NOMINAL VELOCITY OF PROPAGATION (NVP)	69%
CAPACITANCE	≤ 5.6 nF/100 m
INSULATION RESISTANCE	≥ 5000 MΩ *km

MECHANICAL SPECIFICATIONS

INSTALLATION TEMPERATURE	-20 °C to +70 °C
OPERATING TEMPERATURE	-20 °C to +70 °C
ELONGATION BEFORE AGING	≥ 300% (Insulation), ≥ 100% (Jacket)
TENSILE STRENGTH BEFORE AGING	≥ 16.5 MPa (Insulation), ≥ 13.8 MPa (Jacket)
ELONGATION AFTER AGING	≥ 75% of unaged (Insulation); ≥ 50% of unaged (Jacket)
TENSILE STRENGTH AFTER AGING	≥ 75% of unaged (Insulation); ≥ 85% of unaged (Jacket)