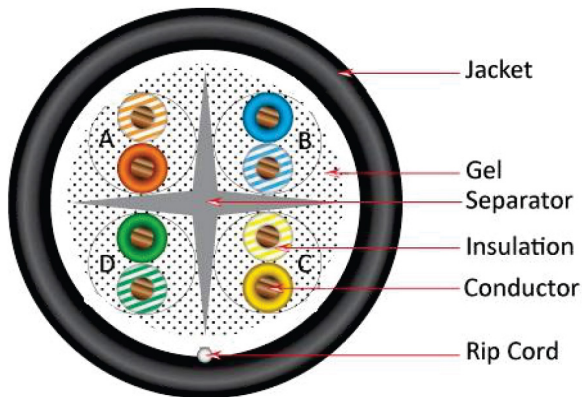




(4-Pair Core in Black Cable)



(Cable Construction Diagram)

DATA TEK[®]

Quality Data Products

23AWG CAT6 UTP 4-Pair Data Cable -300m Smart Reel Box

03JCAT6R3JF

FEATURES:

- 4 Pair CAT6 UTP cable with jelly-filled flooding compound for moisture protection
- Designed for outdoor and direct burial installations
- UV-stabilised PE outer jacket ensures long life in sunlight-exposed conditions
- Solid bare copper conductors for stable data transmission and low signal loss
- 300m Timber spool packaging for ease of handling and deployment
- Excellent resistance to water, chemicals, and temperature extremes
- RCM Approved to meet Australian compliance standards

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	57.3	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 300m Timber Spool

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	Black
LENGTH	300m
RCM APPROVED	Yes

CONSTRUCTION SPECIFICATIONS

CONDUCTOR NOMINAL DIAMETER	0.56 mm
CONDUCTOR MATERIAL	Solid Bare Copper
INSULATION NOMINAL DIAMETER	1.0mm
INSULATION MATERIAL	High-Density Polyethylene (HDPE)
FILLER MATERIAL	Jelly Filled
SEPARATOR	PE (Polyethylene)
RIPCORDER	Nylon
JACKET MATERIAL	PE (Polyethylene) - UV Stabilised
AVERAGE JACKET THICKNESS	1.0mm
OVERALL DIAMETER (O.D.)	7.0mm

ELECTRICAL SPECIFICATIONS (@20°C)

IMPEDANCE (1-250 MHz)	100 ± 15 Ω
DC RESISTANCE	≤ 9.38 Ω/100 m
DC CONDUCTOR RESISTANCE UNBALANCE	≤ 5%
CAPACITANCE	≤ 5.6 nF/100 m

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)