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PVCAT6B-BLK-R1K

Category 6e Cable - Burial / Outdoor

PRODUCT DESCRIPTION

Four pair 23 AWG solid bare copper conductors, gel filled with UV resistant polyethylene jacket. Black jacket, 1,000 foot reel.

ELECTRICAL CHARACTERISTICS

Impedance 1 to 100 MHz:	100 ± 15 Ω
Nominal Mutual Capacitance @ 1 KHz:	≤5.6 nF/100 m
Maximum Capacitance Unbalance:	330 pF/100 m
Nominal Velocity of Propagation:	66%
Maximum Delay (ns/100 m) @ 100 MHz:	538 ns
Maximum Delay Skew:	≤ 45 ns/100 m
Maximum DCR Unbalance @ 20 °C:	≤ 5%
Maximum Conductor DC Resistance @ 20 °C:	9.38 Ω/100 m
Maximum Operating Voltage - UL:	300 V RMS

CONSTRUCTION CHARACTERISTICS

Number of Pairs:	4
Total Number of Conductors:	8
AWG:	23 (0.55 mm)
Conductor Stranding:	Solid
Conductor Material:	BC Bare Copper
Insulation Material:	HD-PE
Outer Jacket OD:	0.283 in (7.2 mm)
Outer Jacket Material:	LLDPE
Outer Jacket Ripcord:	Yes
Shipping Weight:	37.5 lb/1000 ft
Max. Recommended Pulling Tension:	35 lb
Min. Bend Radius (Install):	1.0 in (2.5 cm)
Operating Temperature Range:	-20 °C to +60 °C
Footage Markers:	0 to 1000 ft (0 to 305 m)
UL / ETL Flame:	None
Insulation Colors:	Blue, White/Blue - Orange, White/Orange Green, White/Green - Brown, White/Brown



MAXPIPE™
DATACOMM SERIES

Frequency (MHz)	Return Loss (Min. dB)	Attenuation (Max. dB/100 m)	NEXT (Min. dB)	PSNEXT (Min. dB)	ELFEXT (Min. dB/100 m)	PSELFEXT (Min. dB/100 m)
1	20.0	2.0	74.3	72.3	67.8	64.8
4	23.0	3.8	65.3	63.3	55.8	52.8
8	24.5	5.3	60.8	58.8	49.7	46.7
10	25.0	6.0	59.3	57.3	47.8	44.8
16	25.0	7.6	56.2	54.2	43.7	40.7
20	25.0	8.5	54.8	52.8	41.8	38.8
25	24.3	9.5	53.3	51.3	39.8	36.8
31.3	23.6	10.7	51.9	49.9	37.9	34.9
62.5	21.5	15.4	47.4	45.4	31.9	28.9
100	20.1	19.8	44.3	42.3	27.8	24.8
200	18.0	29.0	39.8	37.8	21.8	18.8
250	17.3	32.8	38.3	36.3	19.8	16.8
**300	16.8	36.4	37.1	35.1	18.3	15.3
**400	15.9	43.0	35.3	33.3	15.8	12.8
**500	15.2	48.9	33.8	31.8	13.8	10.8

*Values Above 250 MHz are determined by the frequency

PVCAT6B-BLK-R1K	Phone: 03 8786 3080	Email: orders@skandia.com.au	skandia.com.au
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