

Cat 5E 25 Pair U/UTP PE Duct Grade Cable



ELAND CAELES G

Eland Product Group: A8N

APPLICATION

gh performance 25 pair backbone cable suitable for outdoor use (in a duct). It can be installed in 100Base-T, Gigabit Ethernet, 155 Mbps ATM, TP-PMD audio, multimedia and telephone networks.

CHARACTERISTICS

Temperature Rating Fixed: -20°C to +60°C

Minimum Bending Radius Full load: 20 x overall diameter No load: 15 x overall diameter

CONSTRUCTION

Conductor Solid copper conductor

Insulation HDPE (High Density Polyethylene)

Filler PE (Polyethylene)

Separator Mylar shield

Sheath PE (Polyethylene)

Core Identification

Pair 1: White/Blue Blue/White Pair 2: White/Orange Orange/White Pair 3: White/Green Green/White Pair 4: White/Brown Brown/White Pair 5: White/Grey Grey/White Pair 5: White/Grey Grey/White Pair 6: Red/Blue Blue/Red Pair 7: Red/Orange Orange/Red Pair 8: Red/Green Green/Red Pair 9: Red/Brown Brown/Red Pair 10: Red/Grey Grey/Red Pair 11: Black/Blue Blue/Black Pair 12: Black/Orange Orange/Black Pair 13: Black/Green Green/Black Pair 14: Black/Brown Brown/Black Pair 15: Black/Grey Grey/Black Pair 16: Yellow/Blue Blue/Yellow

Sheath Colour Black

STANDARDS

ISO / IEC 11801, TIA 568-B.2-1



THE CABLE LAB® AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].



Pair 17: • Yellow/Orange • Orange/Yellow Pair 18: • Yellow/Green • Green/Yellow Pair 19: • Yellow/Brown • Brown/Yellow Pair 20: • Yellow/Grey • Grey/Yellow Pair 21: • Purple/Blue • Blue/Purple Pair 22: • Purple/Orange • Orange/Purple Pair 23: • Purple/Green • Green/Purple Pair 24: • Purple/Brown • Brown/Purple Pair 25: • Purple/Grey • Grey/Purple

DIMENSIONS

ELAND PART NO.	NO. OF PAIRS	NOMINAL DIAMETER OF CONDUCTOR mm ²	NOMINAL THICKNESS OF PAIR INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/305m box
A8NCAT5E25PRDG	25	0.51	0.91	12	154.4

PERFORMANCE CHARACTERISTICS

FREQUENCY MHz	ATTENUATION dB/100m	NEXT dB	PS-NEXT dB	RL dB	ELFEXT dB	PS-ELFEXT dB/100m	PHASE DELAY
1	2	65.3	62.3	20	63.8	60.8	570
4	4.1	56.3	53.3	23	51.8	48.8	552
8	5.8	51.8	48.8	24.5	45.7	42.7	546.73
10	6.5	50.3	47.3	25	43.8	40.8	545.38
16	8.2	47.2	44.4	25	39.7	36.7	543
20	9.3	45.8	42.8	25	37.8	34.8	542.05
25	10.4	44.3	41.3	24.3	35.8	32.8	541.2
31.25	11.7	42.9	39.9	23.6	33.9	30.9	540.44
62.5	17	38.4	35.4	21.5	27.9	24.9	538.55
100	22	35.3	32.3	20.1	23.8	20.8	537.6

ELECTRICAL CHARACTERISTICS

IMPEDANCE (1-100MHz)	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C		
ohms	ohms/km		
100±15	101.2		

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.