

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



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 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



SCIENCE
BASED
TARGETS

BUSINESS
AMBIITION FOR 1.5°C



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 ns
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) ohms	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C 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.