DATA CABLES

CAT 5e

U/UTP 4 PR AWG 24/1

CONDUCTOR	Solid copper conductor 24 AWG/1
INSULATION	Solid PE
SHEATH	LSZH
REFERENCE STANDARD	UL444, ANSI/TIA 568-C.2 & ISO/IEC 11801

PHYSICAL PROPERTIES:

BENDING RADIUS (Installation)	4 x Ø
MAX. RECOMMENDED PULLING TENSION	110 N
NOMINAL OUTER Ø	5.2± 0.3 mm
CABLE WEIGHT	31 kg/km
CORE IDENTIFICATION	
Pair colours	1. White/Blue stripe & Blue 2. White/Orange stripe & Orange 3. White/Green stripe & Green 4. White/Brown stripe & Brown
PACKAGING	305 m box, 500 m drum

MAIN CHARACTERISTICS:

FIRE PERFORMANCE	IEC 60332-3-24 Dca-s2, d2, a1
UV RESISTANCE (Black or grey cables only)	UL1581 section 1200
HALOGEN-FREE	IEC 60754 series
MAX. CONDUCTOR DC RESISTANCE	93.8 Ω/km @20 °C
CONDUCTOR LOOP RESISTANCE	max. 19 Ω/100 m @20 °C
NOM. MUTUAL CAPACITANCE	≤ 5.6 nF/100 m @1 kHz
CAPACITANCE UNBALANCE PAIR TO GROUND	≤ 300 pF/km @1 kHz
MIN. INSULATION RESISTANCE	5000 MΩ/m
IMPEDANCE	100 ± 25 Ω @100 MHz
RATED TEMPERATURE	75 °C
OPERATING TEMPERATURE RANGE	-20 °C - 75 °C

Subject to change without prior notice. See latest update on our webpage.

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ITEM NUMBERS:

Part number	Cable type	Colour	Standard length m
3300123042	CAT 5e U/UTP AWG 24/1	Black	305 box
3300223042	CAT 5e U/UTP AWG 24/1	Yellow	305 box
3300323042	CAT 5e U/UTP AWG 24/1	Grey	305 box
3300423042	CAT 5e U/UTP AWG 24/1	White	305 box
3300523042	CAT 5e U/UTP AWG 24/1	Orange	305 box
3300623042	CAT 5e U/UTP AWG 24/1	Blue	305 box
3300723042	CAT 5e U/UTP AWG 24/1	Red	305 box
3300823042	CAT 5e U/UTP AWG 24/1	Green	305 box
3301123042	CAT 5e U/UTP AWG 24/1	Black	500
3301223042	CAT 5e U/UTP AWG 24/1	Yellow	500
3301323042	CAT 5e U/UTP AWG 24/1	Grey	500
3301423042	CAT 5e U/UTP AWG 24/1	White	500
3301523042	CAT 5e U/UTP AWG 24/1	Orange	500
3301623042	CAT 5e U/UTP AWG 24/1	Blue	500
3301723042	CAT 5e U/UTP AWG 24/1	Red	500
3301823042	CAT 5e U/UTP AWG 24/1	Green	500

PERFORMANCE:

F (MHz)	**ATT** (dB/100 m)	**RL** (dB)	**NEXT** (dB)	**PS NEXT** (dB)	**ACRF (EL FEXT)** (dB/100 m)	**PS ACRF (PS EL FEXT)** (dB/100 m)	**PD** (ns/100 m)
1.0	1.9	39	91	84	83	79	520
4.0	3.8	40	88	73	71	66	502
8.0	5.4	40	79	71	63	61	496
10.0	6.0	39	82	78	61	60	495
16.0	7.7	36	81	73	56	54	493
20.0	8.6	34	84	66	53	52	492
25.0	9.6	37	70	65	50	49	491
31.2	10.8	36	64	61	47	47	490
62.5	15.4	32	61	52	38	38	488
100.0	19.7	29	68	52	32	32	487

F = Frequency
ATT = Attenuation
RL = Return Loss
NEXT = Near End Crosstalk
PS NEXT = Power Sum Near End Crosstalk
ACRF (EL FEXT) = Attenuation to Crosstalk Ratio Far End Crosstalk
PS ACRF (PS EL FEXT) = Power Sum Attenuation to Crosstalk Ratio Far End Crosstalk
PD = Phase Delay

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