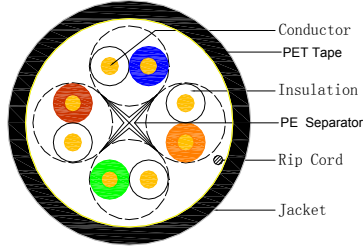


Product Specification sheet for:

CAT6-DB

CAT6E DIRECT BURIAL- 550 MHz 23 AWG UTP, GEL TYPE

CONSTRUCTION DETAIL



PHYSICAL CONSTRUCTION

1) Conductor:

Number of Pairs	4
Total Number of Conductors	8
Conductor Material	BC - Solid Bare Copper
Wire Gage	23 AWG
Elongation rate	≥15%

2) Insulation:

Insulation Material	HDPE - Polyethylene
Nom. Insulation Wall Thickness	0.18 mm
Diameter over Insulation	Ø 0.98 (±0.02) mm
Elongation	≥300%
Pair Color Code	Cable Color Cord Conduct

3) Paired

Length of Lay	< 70 mm
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4) Cabling

Order of the Pair	See the Cross Section
Polyester Foil	PET (25um)
PE Separator	4.5 × 4.5mm

5) Outer Jacket

Outer Jacket	LDPE - Polyethylene
Outer Jacket Colors	Per Customer Request
Sheath Rip Cord	200D × 3
Nominal Thickness	0.72 (±0.03) mm
Min. Thickness	0.70 mm
Diameter Over Sheath	Ø7.0 (±0.20) mm
Marking	Per Customer Request

COLOR

Length 305m Plywood, 500m Plywood, 1000m Plywood, 2000m Plywood Reels

MARKING

STRUCTURED CABLE PRODUCTS---CAT6 SHIELDED ENHANCED
550 MHZ VERIFIED to TIA/EIA 568-B.2.1 E198134 (UL) OR C(UL)
CMR FT4 75C 23AWG 4PR ZONE/DEVICE A B C D E O
1 2 3 4 5 6 7 8 9 ROHS ce XXXFT

ELECTRICAL CHARACTERISTICS

Reference Standard	TIA/EIA-568-B.2	
Product Standard Certification :	E310605	
Test Item	Units	Spec
1. Conductor DC Resistance 20°C	Ω/100m	≤7.5
2. Unbalance of Pair DC Resistance 20°C	%	≤2.5
3. Dielectric Strength between Pairs	kv/min	≤1.0
4. Insulation Resistance	MΩ/km	≥5000
5. Capacitance	nF/100m	—
6. Unbalance Capacitance	pF/100m	≤330
7. Characteristic impedance(1 to 100MHz)	Ω	100±15
8. Short or Open of the loop	—	None
9. Shield	—	—

FREQUENCY (MHZ)	RL (DB)	SRL (DB)	ATTEN (DB/100M)	NEXT (DB/100M)
1	20.00	30.00	1.85	74.30
4	23.01	30.00	3.69	65.27
8	24.52	30.00	5.26	60.75
10	25.00	30.00	5.89	59.30
16	25.00	30.00	7.51	56.24
20	25.00	30.00	8.43	54.78
25	24.32	29.03	9.47	53.33
31.5	23.64	28.06	10.64	47.36
62.5	21.54	25.05	15.36	44.30
100	20.11	23.01	19.78	44.30
155	18.77	21.00	25.15	41.45
200	18.00	20.00	28.97	39.78
250	17.32	19.03	32.84	38.33

FREQUENCY (MHZ)	PSNEXT (DB/100M)	ELFEXT (DB/100M)	PSELFEXT (DB/100M)	DELAY (NS/100M)
1	72.30	68.00	570.0	45.0
4	63.37	55.96	552.0	45.0
8	58.75	49.94	546.0	45.0
10	57.30	48.00	545.0	45.0
16	54.24	43.92	543.0	45.0
20	52.78	41.98	542.0	45.0
25	51.33	40.04	541.0	45.0
31.25	49.88	38.10	540.0	45.0
62.5	45.36	32.08	538.0	45.0
100	42.30	28.00	537.0	45.0
155	39.45	24.19	21.19	45.0
200	39.45	21.98	536.0	45.0
250	36.33	20.04	17.04	45.0

MECHANICAL CHARACTERISTICS

Test Object	Sheath
Test Material	LDPE

SPECIFICATION CONTROL

Structured Cable Products specifications are subject to change without notice. Please contact a sales representative for a current product specification. Structured Cable Products strives to ensure product specifications are complete, current, and accurate. Please note, all physical specifications are nominal.