



# Structured Cable Products

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## Cat 6 Direct Burial Cable SCP Part # Cat6-DB

Cross Section		Electrical Characteristics				
		Reference Standard:		TIA/EIA-568-B.2		
		Product Standard Certification :		E310605		
		<b>Test Item</b>	<b>Units</b>	<b>Spec</b>		
		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	—	—		
Cable Description		Frequency (MHz)	RL (dB)	SRL (dB)	ATTEN (dB/100m)	NEXT (dB/100m)
<b>1) Conductor :</b>		1	20.00	30.00	1.85	74.30
Number of Pairs	4	4	23.01	30.00	3.69	65.27
Total Number of Conductors	8	8	24.52	30.00	5.26	60.75
Conductor Material	BC - Solid Bare Copper	10	25.00	30.00	5.89	59.30
Wire Gage	23 AWG	16	25.00	30.00	7.51	56.24
Elongation rate	≥15%	20	25.00	30.00	8.43	54.78
<b>2) Insulation :</b>		25	24.32	29.03	9.47	53.33
Insulation Material	HDPE - Polyethylene	31.5	23.64	28.06	10.64	47.36
Nom. Insulation Wall Thickness	0.18 mm	62.5	21.54	25.05	15.36	44.30
Diameter over Insulation	Φ 0.98 (±0.02) mm	100	20.11	23.01	19.78	44.30
Elongation	≥300%	155	18.77	21.00	25.15	41.45
Pair Color Code	Cable Color Cord	200	18.00	20.00	28.97	39.78
<b>3) Paired :</b>		250	17.32	19.03	32.84	38.33
Length of Lay	< 70 mm	Frequency (MHz)	PSNEXT (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
<b>4) Cabling :</b>		1	72.30	68.00	65.00	45.0
Order of the Pair	See the Cross Section	4	63.27	55.96	52.96	45.0
Polyester Foil	PET (25um)	8	58.75	49.94	16.94	45.0
PE Separator	4.5 × 4.5mm	10	57.30	48.00	45.00	45.0
<b>5) Outer Jacket :</b>		16	54.24	43.92	40.92	45.0
Outer Jacket	LDPE - Polyethylene	20	52.78	41.98	38.98	45.0
Outer Jacket Colors	Per Customer Request	25	51.33	40.04	37.04	45.0
Sheath Rip Cord	200D × 3	31.5	49.88	38.10	35.10	45.0
Nominal Thickness	0.72 (±0.03) mm	62.5	45.36	32.08	29.08	45.0
Min. Thickness	0.70 mm	100	42.30	28.00	25.00	45.0
Diameter Over Sheath	Φ 7.0 (±0.20) mm	155	39.45	24.19	21.19	45.0
Marking	Per Customer Request	200	37.78	21.98	18.98	45.0
		250	36.33	20.04	17.04	45.0
Other Characteristics		Mechanical Characteristics				
Length	305m Plywood 500m Plywood 1000m Plywood 2000m Plywood Reels	<b>Test Object</b>		<b>Sheath</b>		
<b>All specifications are subjected to change without prior notice.</b>		Test Material		LDPE		
		<h1>Structured Cable Products</h1>				
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