



Armored CAT 6 Cable

Model No. SE-02-ARMC

Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth of 250 MHz. This cable well exceeds the requirement of TIA/EIA-568-C.2.

Applications:

- Suitable for Burial Cables
- Near Power Lines
- High EMI Interference surroundings



Construction:

Conductor	Solid Bare Electrolytic Grade Copper
Nominal Conductor Diameter	(23 AWG) 0.550 ± 0.015
Insulation	Polyethylene
Colour Code:	
Pair #1	Orange- White with Orange
Pair #2	Brown- White with Brown
Pair #3	Blue- White with Blue
Pair #4	Green- White with Green
Rip Cord	Yes
Inner Jacket	PVC
Thickness of Inner Jacket	0.65 to 0.70 mm
Armouring	G.I. Wire
Size of Wire	0.90 ± 0.030 mm
Sequential Marking	At Every Meter
Temperature Rating	-20 to +60 deg. C
Outer Jacket	PE (Suitable for Burial)
Thickness of Outer Jacket	0.85 mm (Nom.)
Colour of Jacket	Black
Approximate OD (approx)	9.70 mm
Filler	HDPE

LOW FREQUENCY ELECTRICAL PARAMETER:

- Conductor Resistance (DC): 93.5 OHMS/1000MTR@20 Degree C. MAX.
- Resistance Unbalanced: 5%MAX
- Mutual Capacitance: 5.6 nF/100 mtrs Max.
- Capacitance Unbalance Pair/ Ground: 330PF/100M MAX

- Propagation Delay Skew: 536nS/100M
- Normal Velocity of Propagation: 69%
- Impedance: 100±15%OHMS
- Worst Case cable Skew: 45ns/100m
- Generally confirming to EIA/TIA 568-C.2 and IEC/ISO 11801

HIGH FREQUENCY ELECTRICAL PARAMETER:

FREQ	ATT (dB/ 100m) max.	NEXT (dB) min.	PS.NEXT (dB) min.	ACRF (dB @100m) min.	PS.ACRF (dB@100m) min.	Return Loss
(MHz)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)
1	2.1	65	62	63	60.3	19
4	4	63	60.5	51.2	48.2	19
8	5.7	58.2	55.6	45.2	42.2	19
10	6.3	56.6	54	43.3	40.3	19
16	8	53.2	50.6	39.2	36.2	18
20	9	51.6	49	37.2	34.2	17.5
25	10.1	50	47.3	35.3	32.3	17
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14
100	21.3	39.9	37.1	23.3	20.3	12
200	31.5	34.8	31.9	17.2	14.2	9
250	35.9	33.1	30.2	15.3	12.3	8

