

RAMCRO - Data Cable

For standard applications, flame retardant.

UTP 4 pairs cable - Category 6 - 250MHz – PVC Sheath

Code: UTPLEVEL6-4X2X0.22-3+

HDPE/PVC

Application

A local area network (LAN) is a computer network that interconnects computers within a limited area such as a residence, school, laboratory, university campus or office building. Cat 6 features more stringent specifications for crosstalk and system noise. The cable standard also specifies performance of up to 100 MHz for Cat 5 and Cat 5e.

Construction

4x2x23AWG

Formation	4 Pairs	Unit	Nominal Value
Section	23 AWG		
Conductor	Plain annealed copper wire, solid	mm	0,6
Insulation	High Density Polyethylene - HDPE	mm	1,0
Colour Code	A - Blue, White/Blue, B - Orange, White/Orange, C - Green, White/Green, D - Brown, White/Brown		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape 0,023 mm		
Collective Screen	N.A.		
Inner Sheath	N.A.		
Armour	N.A.		
Outer Sheath	Polyvinyl chloride - PVC - Grey RAL 7035	mm	6,1
Cable Printing	LANCRO - UTP 4x2xAWG23 CAT.6 PVC - VERIFIED ISO IEC 11801-TIA/EIA 568 + BATCH + "___/year" + METER MARKING		

Technical Data & Standard References

Fire Propagation:

- Test on single cable IEC 60332-1

Construction Reference Standard: ISO/IEC11801


Type of Cable: Data Cable
Low Voltage Directive 2014/35/UE

Limiting Oxygen Index (LOI) (min 30%)
Smoke Density IEC 61034
Amount of halogen acid gas IEC 60754-1 (max 15%)
Acidity (ph value) and conductivity IEC 60754-2

Other References:
- TIA/EIA-568-C.2

Notes

Electrical & Mechanical Data

Conductor Cross-section	Nom.	23 AWG	Temperature Range:		° C	-30° C up to +80° C
DC Resistance per core at 20° C	max (Ω/100m)	9,5	During Operation			
Impedance	Ω	100 +/- 15	During Installation	° C	-5° C up to +50° C	
DC Conductor Resistance Unbalance (%)	%	5				

Electrical & Mechanical Data

MHz	RL ≥ dB	ATT ≤ dB	NEXT ≥ dB	DELAY ≤ dB	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ dB
1	20	2,03	74,3	570	72,3	67,8	64,8
4	23	3,78	65,3	552	63,3	55,8	52,8
8	24,5	5,32	60,8	546,73	58,8	49,7	46,7
10	25	5,95	59,3	545,38	57,3	47,8	44,8
16	25	7,55	56,2	543	54,2	43,7	40,7
20	25	8,47	54,8	542,05	52,8	41,8	38,8
25	24,3	9,51	53,3	541,2	41,3	39,8	36,8
31,25	23,6	10,67	51,9	540,44	49,9	37,9	34,9
62,5	21,5	15,38	47,7	538,55	45,4	31,9	28,9
100	20,1	19,8	44,3	537,6	42,3	27,8	24,8
200	18	28,98	39,8	536,54	37,8	21,8	18,8
250	17,3	32,85	38,3	536,27	36,3	19,8	16,8