

RAMCRO - Data Cable

For standard applications, flame retardant.

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

EN 50575:2016 CPR Class Eca

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
Section	23 AWG
Conductor	Plain annealed copper wire, solid
Insulation	High Density Polyethylene - HDPE
Colour Code	A - Blue, White/Blue, B - Orange, White/Orange, C - Green, White/Green, D - Brown, White/Brown
Individual Screen	N.A.
Wrapping	N.A.
Collective Screen	N.A.
Inner Sheath	N.A.
Armour	N.A.
Outer Sheath	Polyvinyl chloride - PVC - Grey RAL 7001
Cable Printing	RAMCRO ITALY R17965E - UTP 4X2X23AWG CAT.6 PVC- VERIFIED ISO IEC 11801- TIA/EIA 568-EN50575:2014+A1 : 2016 CPR Class Eca + "PROD.WEEK/22" + BATCH + METER MARKING"

Technical Data & Standard References

Fire Propagation:	IEC 60332-1	CPR Class Eca	EN 50575:2016
- Test on single cable		Construction Reference Standard:	ISO/IEC11801
		Type of Cable:	Data Cable
		Low Voltage Directive	2014/35/UE
		Other References:	TIA/EIA-568-C.2
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		
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	
DC Conductor Resistance Unbalance (%)	%	5		° C -5° C up to +50°C

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