

Technical Data Sheet

Rosenberger

Cat6A UTP Data Cable

CP11-171-XX

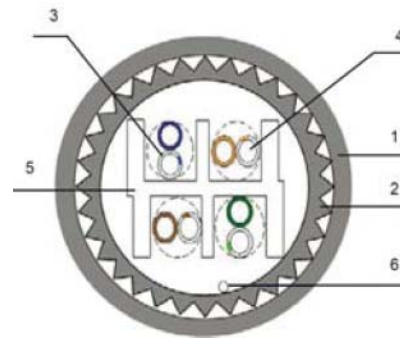
Application

Rosenberger indoor CAT6A UTP cable are designed for unshielded cabling system. Rosenberger HDCS Category 6A cables exceed ANSI/TIA-568C.2 requirements for Category 6A performance with large margins on all parameters. It is available in different jacket material including CMX, CM, CMR, CMP, LSZH for different applications.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 10Gbase-T Gigabit Ethernet
- 155Mbit ATM
- 622Mbit ATM
- 1.2 Gbit ATM
- TR-16 Active
- TR-16 Passive

Construction

Construction: 4×2×AWG23
 Conductor: AWG 23 solid copper
 Insulation: HDPE
 Core: 4 twist pairs
 Filling: PE
 Sheath: CMX, CM, CMR, CMP, LSZH
 Standard Colour: Grey (PVC), Purple (LSZH)
 Normal Diameter: 7.8*9.5 mm



1, Outer Jacket
 2, Inner Jacket
 3, Insulation
 4, Conductor
 5, Filler
 6, Rip cor



Warranty

25 years of total warranty system guarantee the Rosenberger HDCS® for True Class E_A system.*

*Please check the detail warranty documents for more information.

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Installation

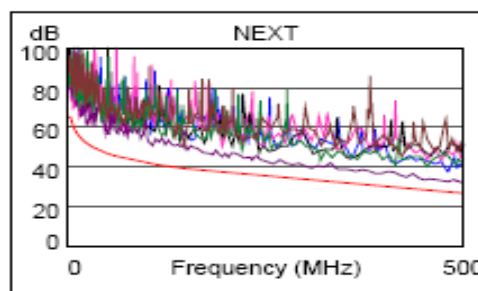
Rosenberger HDCS® Category 6A UTP cable is specially designed for easy termination on the field site. With centre PE filling element, Rosenberger HDCS® Category 6A UTP data cables guarantee the stable construction and enhanced performance.

Electrical Performance at 20°C

Frequency (MHz)	ATT (dB/100m)	NEXT (dB)	RL (dB)	PSNEXT (dB)	ACRF (dB)	PS-ACRF (dB)	PS-ANEXT (dB)	PS-AACRF (dB)
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Max.
1.0	2.1	74.3	20.0	72.3	67.8	64.8	67.0	67.0
4.0	3.8	65.3	23.0	63.3	55.8	52.8	67.0	66.2
8.0	5.3	60.8	24.5	58.8	49.7	46.7	67.0	60.1
10.0	5.9	59.3	25.0	57.3	47.8	44.8	67.0	58.2
16.0	7.5	56.2	25.0	54.2	43.7	40.7	67.0	54.1
20.0	8.4	54.8	25.0	52.8	41.8	38.8	67.0	52.2
25.0	9.4	53.3	24.3	51.3	39.8	36.8	67.0	50.2
31.25	10.5	51.9	23.6	49.9	37.9	34.9	67.0	48.3
62.5	15.0	47.4	21.5	45.4	31.9	28.9	65.6	42.3
100.0	19.1	44.3	20.1	42.3	27.8	24.8	62.5	38.2
200	27.6	39.8	18.0	37.8	21.8	18.8	58.0	32.2
250	31.1	38.3	17.3	36.3	19.8	16.8	56.5	30.2
300	34.3	37.1	16.8	35.1	18.3	15.3	55.3	28.7
400	40.1	35.3	15.9	33.3	15.8	12.8	53.5	26.2
500	45.3	33.8	15.2	31.8	13.8	10.8	52.0	24.2

Other Performance at 20°C

DC resistance	≤9.50 Ω/100m
Unbalanced resistance	≤5%
Unbalance capacitance	≤330pF/100m
Capacitance	≤5.6nF/100m
Dielectric strength	DC 1kv (3s No Fail)
Insulation resistance	≥5000Mohm.Km
Impedance	1~125MHz (100±15) Ω
	125~250MHz (100±22) Ω
	250~500MHz (100±25) Ω
Delay skew	≤45ns



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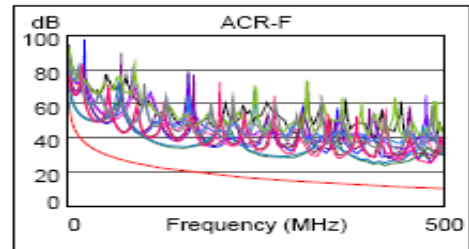
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Mechanical Performance at 20°C

Bending radius	
During installation (min.)	8×outer diameter
Installed (min.)	4×outer diameter
Temperature range	
During installation	0°C to +50°C
Installed	-20°C to +60°C



Ordering Information

Order Number	Description
CP11-171-12	Cat6A indoor UTP cable, CM, 305m/reel
CP11-171-13	Cat6A indoor UTP cable, LSZH, 305m/reel
CP11-171-14	Cat6A indoor UTP cable, CMR, 305m/reel
CP11-171-16	Cat6A indoor UTP cable, CMP, 305m/reel
CP11-171-22	Cat6A indoor UTP cable, CM, 500m/reel
CP11-171-23	Cat6A indoor UTP cable, LSZH, 500m/reel
CP11-171-24	Cat6A indoor UTP cable, CMR, 500m/reel
CP11-171-26	Cat6A indoor UTP cable, CMP, 500m/reel

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Checker	Approved	Date	Rev.	Engineering change number	Name	Date
candy	13-12-26	Joe	Steven	14-02-07				

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