

Technical Data Sheet

Rosenberger

Cat6 UTP Data Cable

CP11-141-XX

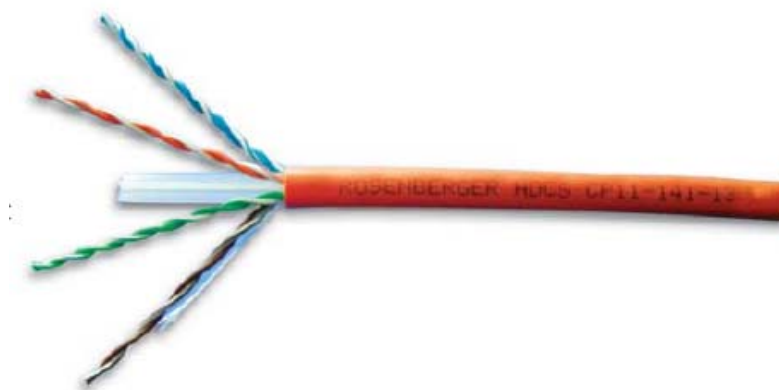
Applications

Rosenberger CAT6 UTP data cables are designed for unshielded cabling system. Rosenberg HDCS® Category 6 data cables exceed ANSI/TIA-568C.2 and ISO/IEC11801 2nd requirements for Category 6 performance with large margins on all parameters. It is available in different jacket material such as CMX, CM, CMR, CMP, LSZH for different applications.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX 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: “+ ” style
 Sheath: CMX, CM, CMR, CMP, LSZH
 Standard Colour: Grey (PVC), Orange (LSZH)
 Normal Diameter: 6.4 mm

**Warranty**

25 years of total warranty system guarantee the Rosenberg HDCS® for True Class E system.*

*Please check the detail warranty documents for more information.

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Installation

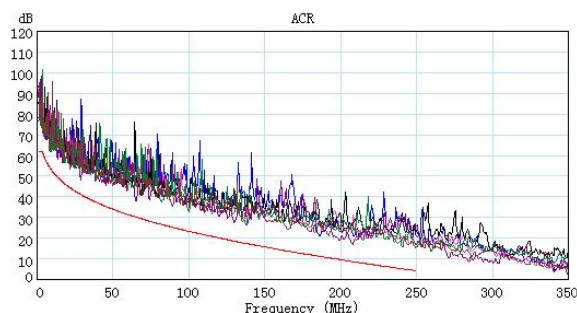
Rosenberger HDCS® Category 6 UTP cable is specially designed for easy termination on the field site. With centre PE filling element, Rosenberger HDCS® Category 6 UTP data cables guarantee the stable construction and enhanced performance.

Electrical Performance at 20°C

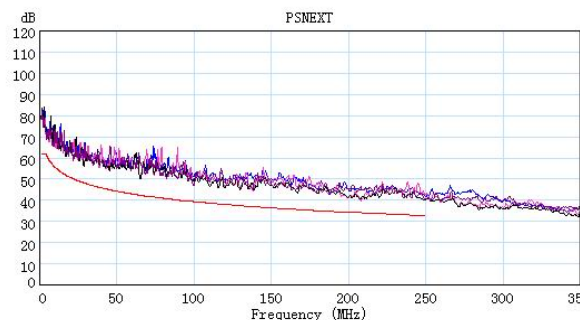
Frequency (MHz)	ATT (dB/100m)	NEXT (dB)	RL (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)
	Max.	Min.	Min.	Min.	Min.	Min.
1	2.0	74.3	20.0	72.3	67.8	64.8
4	3.8	65.3	23.0	63.3	55.8	52.8
8	5.3	60.8	24.5	58.8	49.7	46.7
10	6.0	59.3	25.0	57.3	47.8	44.8
16	7.6	56.2	25.0	54.2	43.7	40.7
20	8.5	54.8	25.0	52.8	41.8	38.8
25	9.5	53.3	24.3	51.3	39.8	36.8
31.25	10.7	51.9	23.6	49.9	37.9	34.9
62.5	15.4	47.4	21.5	45.4	31.9	28.9
100	19.8	44.3	20.1	42.3	27.8	24.8
200	29.0	39.8	18.0	37.8	21.8	18.8
250	32.8	38.3	17.3	36.3	19.8	16.8
300	35.0	37.5	17.0	35.5	19.2	15.5
600	53.1	33.0	15.0	32.5	11.0	9.5

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	1-250MHZ (100±15) Ω 250-600MHZ (100±25) Ω
Delay skew	≤45ns

**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



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Ordering Information

Order Number	Description
CP11-141-12	Cat6 indoor UTP cable, CM, 305m/box
CP11-141-13	Cat6 indoor UTP cable, LSZH, 305m/reel
CP11-141-14	Cat6 indoor UTP cable, CMR, 305m/reel
CP11-141-16	Cat6 indoor UTP cable, CMP, 305m/reel
CP11-141-22	Cat6 indoor UTP cable, CM, 500m /reel
CP11-141-23	Cat6 indoor UTP cable, LSZH, 500m /reel
CP11-141-24	Cat6 indoor UTP cable, CMR, 500m/reel
CP11-141-26	Cat6 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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