

Technical Data Sheet

Rosenberger

Cat6 UTP Data Cable

CP11-141-1X-S

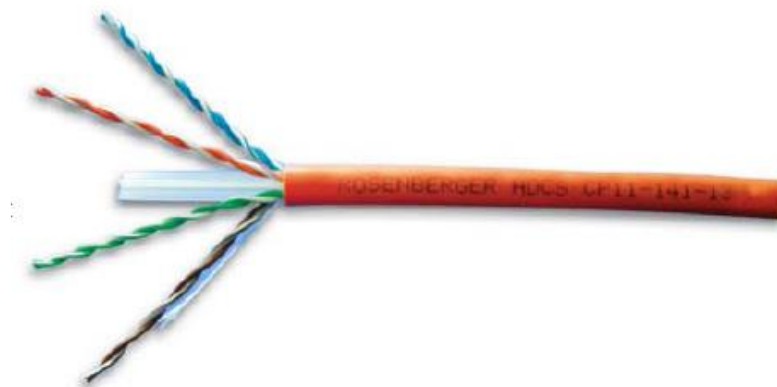
Applications

Rosenberger CAT6 UTP data cables are designed for unshielded cabling system. Rosenberger HDCS® Category 6 data cables exceed ANSI/TIA-568.2-D and ISO/IEC11801 2nd requirements for Category 6 performance with large margins on all parameters. It is available in different jacket material such as CM, 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: 4x2xAWG24
 Conductor: AWG 24 solid copper (Minimum 24 AWG)
 Insulation: HDPE
 Core: 4 twist pairs
 Filling: “+ ” style
 Sheath: CM, LSZH
 Standard Colour: Grey (PVC), Orange (LSZH)
 Normal Diameter: 5.8±0.3mm
 General standard: Standard RoHS



Warranty

25 years of total warranty system guarantee the Rosenberger 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

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
Delay skew	≤45ns

Mechanical Performance at 20°C

Bending radius	
During installation (min.)	8xouter diameter
Installed (min.)	4xouter 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-S	Cat6 indoor UTP cable, CM Grey, 305m/box
CP11-141-12-S-BL	Cat6 indoor UTP cable, CM Blue, 305m/box
CP11-141-13-S	Cat6 indoor UTP cable, LSZH, 305m/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	Check	Approve	Date	Rev.	ECN	Name	Date
candy	2013-12-26	Joe	Steven	2014-02-07	A00	NEW	Eva	2024/8/28

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