



PRODUCT CATALOG

2019/2020

AMERICAN
Networks and Technologies

All the copy rights are reserved by
American Networks and Technologies
Denver, Colorado
United States of America



More than
30k Clients
world wide
can't be
wrong

CONTENTS

01

THE COMPANY

Page 4

02

ABOUT US

Page 5

03

CATEGORY 6 CABLES

Page 7

04

OUTDOOR CABLES

Page 9

05

CATEGORY 6A CABLES

Page 12

06

CATEGORY 7 CABLES

Page 14

07

COPPER PATCH CORDS

Page 16

08

COPPER PATCH PANEL

Page 17

09

COPPER ACCESSORIES

Page 18

10

CERTIFICATES / COMPLIANCE

Page 19



THE COMPANY

American Networks and Technologies provide critical support for new and legacy telecommunications, head end and data center equipment. We have unique programs and offerings to maximize longevity and streamline your core network by providing some of the optimum turn key solutions with impressive partner programs in the varied sectors including cable and telecom industries.

American Networks and Technologies has a primary goal of

creating customer loyalty. We will continue to strive to meet the ever changing needs of the technology industry.

Our knowledgeable team is dedicated to providing the highest quality support to meet our client's needs, partnering with them to architect seamless and tailored solutions that elevates their organization to the next level, enabling us to become the premier industry leader in technologies.

ABOUT US



American Networks and Technologies as a company bridges the gap between technological innovation and the very human need for networking solutions that help companies achieve their specific objectives.

As technology constantly evolves - businesses are looking internally for ways to become more efficient and ultimately more profitable. We help scale down the endless possibilities of network technology and engineer a unique solution.

From a single component to a complete system, American Networks and Technologies can deliver solutions for Project Management, IT Consultancy, Wireline / Wireless Networks. Our solution teams will ensure that we exceed your expectations project by project.

OUR MISSION

We strive to exceed our client's expectations by providing an exceptional customer experience and innovative solutions to build long-term relationships.



CATEGORY 6 CABLE

UTP / FTP / S-FTP

Our category 6 twisted pair cables are characterized and tested to 250MHz and standardized to 23 AWG. We provide a positive PSACR up to 300 MHz for evolving and subsequent bandwidth requirements. They are tape design engineered for smaller overall diameter and ease of installation.

Standard Compliances

- ISO/IEC 11801:2011 (Ed. 2.2)
- IEC 61156-5: 2009 (Ed.2.0)
- EN 50173-1:2011
- EN 50173-2:2007 including amendment A1:2010
- ANSI / TIA - 568-C.2:2009

Applications

- IEEE 802.3 : 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-T
- ANSI/TIA / EIA-854 : 1000BASE-TX
- 155 Mb/s, 1.2 Gb/s ATM
- ANSI X3.263 : 100 Mb/s
- IEEE 802.3af DTE Power (POE)
- 4/16 Mb/s Token Ring
- Digital Video
- Broadband & Baseband Analog Video



Technical Details

Capacitance unbalance (max.) @ 0.8 or 1 kHz (pF/km)	1600	Delay Skew (max.) ns/100m @ 20°C	45
DC Resistance (max) Ω / km @ 20°C	95	Mean input impedance @100 MHz	100 \pm 5 Ω
Resistance unbalance within a pair (max.) (%)	2	Dielectric strength Mean	Min 1.0 kVdc or 0.7 kVac for 1 min.
Resistance unbalance between pairs (max.) (%)	4		Min 2.5 kVdc or 1.7 kVac for 2 sec

Electrical Performance

IEC 61156-5 Ed.2.0 Category 6 Horizontal Cable Parameters							
Freq. (MHz)	Ins. Loss (dB/100m)	RL (dB)	Pair to Pair		Power Sum		Po. Delay (ns/100m)
			NEXT	ELFEXT	NEXT	ELFEXT	
			(dB/100m)		(dB/100m)		
	Max.	Min.	Min.	Min.	Min.	Min.	
1	2.1	20	75.0	68.0	72.3	65.0	570.0
4	3.8	23	66.3	56.0	63.3	53.0	552.0
10	6.0	25	60.3	48.0	57.3	45.0	545.4
16	7.6	25	57.2	43.9	54.2	40.9	543.0
20	8.5	25	55.8	42.0	52.8	39.0	542.0
31.25	10.7	23.6	52.9	38.1	49.9	35.1	540.4
62.5	15.5	21.5	48.4	32.1	45.4	29.1	538.6
100	19.9	20.1	45.3	28.0	42.3	25.0	537.6
200	29.1	18	40.8	22.0	37.8	19.0	536.5
250	33.0	17.3	39.3	20.0	36.3	17.0	536.3

Note: All tests include 401 points on swept frequency measurements and also all electrical characteristics are given at 20°C.

Ordering Guide

Part Number	Description
ANNT131000195C1061	Category 6 - 23 AWG*4 pair U/UTP solid cable, PVC jacket, 305 m, Blue
ANNT131000194C1062	Category 6 - 23 AWG*4 pair U/UTP solid cable, PVC jacket, 305 m, Gray
ANNT132000196C1061	Category 6 - 23 AWG*4 pair U/UTP solid cable, LSZH jacket, 305 m, Blue
ANNT134000198C1061	Category 6 - 23 AWG*4 pair F/UTP solid cable, PVC jacket, 305 m, Blue
ANNT135000199C1061	Category 6 - 23 AWG*4 pair SF/UTP solid cable, PVC jacket, 305 m, Blue

OUTDOOR CABLE CATEGORY 6 / 6A

Our category 6 twisted pair outdoor cables are characterized and tested to 250MHz and standardized to 23 AWG. We provide a positive PSACR up to 300 MHz for evolving and subsequent bandwidth requirements. They are tape design engineered for smaller overall diameter and ease of installation.

Features

- 4 Pair Solid -Bare Copper Cable with / without messenger cable is used for outdoor installation
- Conductive material: wire made of soft annealed electrolytic copper
- Conductor insulation: HDPE
- The cable jacket: Black PE
- Messenger: galvanized steel wire

Application

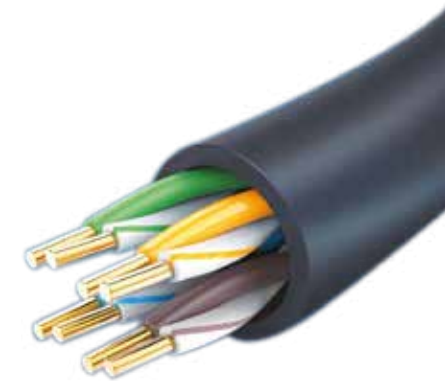
- Horizontal communication cable
- Aerial Applications
- Outdoor Applications

Compliances

- ISO/IEC 11801
- ANSI/TIA-568-C.2 Category 6, 6A
- RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

Ordering Guide

Part Number	Description
ANNT133000197C1061	Category 6 - 23 AWG*4 pair U/UTP solid cable, PE jacket, 305 m, Black
ANNT142000307C1161	Category 6A - 23 AWG*4 pair U/UTP solid cable, PE jacket, 305 m, Blue



We strive to build trust with customers and employees by treating them with respect



Ownership

We provide cabling lifecycles and our premium partner programs for total cost of ownership generate value to your business



Growth

Our research & development team drives towards discoveries that enhance development of new products



Responsive

We are a customer centric business that provides and contributes towards the strategic goals for your business

WE OFFER GREAT SOLUTIONS!

American Networks and Technologies offers a varied range of products and services for ease to the customer base. We offer a unique customer centric approach to manufacturing cables

01

Total cost of ownership

Our total cost of ownership is an estimate of all the direct and indirect costs involved in acquiring and operating a product or system over its lifetime- the very basic cost assesment

02

Our expertise at your service

We serve customers through business groups which increase quality, speed and efficiency by sharing technological, manufacturing, marketing and other resources

03

Supply chain management

Our SCM wing handles the broad range of activities required to plan, control and execute a product's flow- from acquiring raw materials and production up to the final distribution

TCO over IoT

Our systemized procedure of sourcing products and implementing programs help our customers reap huge savings



SERVICES

Our comprehensive design and installation services help you to cost-effectively deploy, secure and manage networks

LOGISTICS

SCM orchestrates and handles the logistics division effectively and productively to attain delivery of the products at each confirmed status



CATEGORY 6A CABLE

UTP / FTP / S-FTP

Our category 6A twisted pair cables are standardized to 23 AWG and are the ideal solution for 10 Gigabit Ethernet. We provide a positive PSACR beyond 500 MHz for evolving bandwidth requirements. They are designed with shielding to offer maximum pair separation which directly increases key electrical performance parameters.

Standard Compliances

- ISO/IEC 11801:2011 (Ed. 2.2)
- IEC 61156-5: 2009 (Ed.2.0)
- EN 50173-1:2011
- EN 50173-2:2007 including amendment A1:2010
- ANSI / TIA61156 - 568-C.2

Applications

- IEEE 802.3an : 10G BASE-T (Gigabit Ethernet) supporting 100 meters
- 3D imaging
- 2.4 / 1.2 Gb/s ATM
- Broadband and Baseband Analog Video
- Digital Video

Technical Details

Capacitance unbalance (max.) @ 0.8 or 1 kHz (pF/km)	1600	Delay Skew (max.) ns/100m @ 20°C	45
DC Resistance (max) Ω/ km @ 20°C	95	Mean input impedance @100 MHz	100 ± 5 Ω
Resistance unbalance within a pair (max.) (%)	2	Dielectric strength Mean	Min 1.0 kVdc or 0.7 kVac for 1 min.
Resistance unbalance between pairs (max.) (%)	4		Min 2.5 kVdc or 1.7 kVac for 2 sec

Electrical Performance

IEC 61156-5 Ed.2.0 Category 6A Horizontal Cable Parameters							
Freq. (MHz)	Ins. Loss (dB/100m)	RL (dB)	Pair to Pair		Power Sum		Po. Delay (ns/100m)
			NEXT	ELFEXT	NEXT	ELFEXT	
			(dB/100m)		(dB/100m)		
	Max.	Min.	Min.	Min.	Min.	Min.	
1	-	20.0	-	-	72.3	-	570.0
4	3.8	23.0	66.3	56.0	63.3	53.0	552.0
10	5.9	25.0	60.3	48.0	57.3	45.0	545.4
16	7.5	25.0	57.2	43.9	54.2	40.9	543.0
20	8.4	25.0	55.8	42.0	52.8	39.0	542.0
31.25	10.5	23.6	52.9	38.1	49.9	35.1	540.4
62.5	15.0	21.5	48.4	32.1	45.4	29.1	538.6
100	19.1	20.1	45.3	28.0	42.3	25.0	537.6
200	27.6	18.0	40.8	22.0	37.8	19.0	536.5
250	31.1	17.3	39.3	20.0	36.3	17.0	536.3
300	34.3	17.3	38.1	18.5	35.1	15.5	536.1
400	40.1	17.3	36.3	16.0	33.3	13.0	535.8
500	45.3	17.3	34.8	14.0	31.8	11.0	535.6

Note: All tests include 401 points on swept frequency measurements and also all electrical characteristics are given at 20°C.

Ordering Guide

Part Number	Description
ANNT136000301C1161	Category 6A - 23 AWG*4 pair U-UTP solid cable, PVC jacket, 305 m, Blue
ANNT136000309C1162	Category 6A - 23 AWG*4 pair U-UTP solid cable, PVC jacket, 305 m, Gray
ANNT137000302C1161	Category 6A - 23 AWG*4 pair U-UTP solid cable, LSZH jacket, 305 m, Blue
ANNT140000305C1161	Category 6A - 23 AWG*4 pair F/FTP solid cable, PVC jacket, 305 m, Blue
ANNT141000306C1161	Category 6A - 23 AWG*4 pair F/FTP solid cable, PVC jacket, 305 m, Blue
ANNT143000308D1161	Category 6A - 23 AWG*4 pair S-FTP solid cable, LSZH jacket, 500 m, Blue

CATEGORY 7 CABLE

UTP / FTP / S-FTP

Our category 7 twisted pair cables are standardized to 23 AWG are for extremely high bandwidth of 600MHz. We provide a positive PSACR beyond 600 MHz for evolving bandwidth requirements. They are designed and tested for highest signal-to-noise ratio to reduce related downtime and network errors.

Standard Compliances

- ISO/IEC 11801:2011 (Ed. 2.2)
- IEC 61156-5: 2009 (Ed.2.0)
- EN 50173-1: 2011
- EN 50173-2:2007 including amendment A1:2010

Applications

- IEEE 802.3an : 10G BASE-T (Gigabit Ethernet) supporting 100 meters
- 3D imaging
- 2.4 / 1.2 Gb/s ATM
- Broadband and Baseband Analog Video
- Digital Video

Technical Details

Capacitance unbalance (max.) @ 0.8 or 1 kHz (pF/km)	1600	Delay Skew (max.) ns/100m @ 20°C	25
DC Resistance (max) Ω/ km @ 20°C	95	Mean input impedance @100 MHz	100 ± 5 Ω
Resistance unbalance within a pair (max.) (%)	2	Dielectric strength Mean	Min 1.0 kVdc or 0.7 kVac for 1 min.
Resistance unbalance between pairs (max.) (%)	4		Min 2.5 kVdc or 1.7 kVac for 2 sec

Electrical Performance

IEC 61156-5 Ed.2.0 Category 7 Horizontal Cable Parameters							
Freq. (MHz)	Ins. Loss (dB/100m)	RL (dB)	Pair to Pair		Power Sum		Po. Delay (ns/100m)
			NEXT	ELFEXT	NEXT	ELFEXT	
			(dB/100m)		(dB/100m)		
	Max.	Min.	Min.	Min.	Min.	Min.	
1	-	20.0	78.0	-	75.0	-	570.0
4	3.7	23.0	78.0	78.0	75.0	75.0	552.0
10	5.9	25.0	78.0	75.3	75.0	72.3	545.4
16	7.4	25.0	78.0	71.2	75.0	68.2	543.0
20	8.3	25.0	78.0	69.3	75.0	66.3	542.0
31.25	10.4	23.6	78.0	65.4	75.0	62.4	540.4
62.5	14.9	21.5	75.5	59.4	72.5	56.4	538.6
100	19.0	20.1	72.4	55.3	69.4	52.3	537.6
200	27.5	18.0	67.9	49.3	64.9	46.3	536.5
250	31.0	17.3	66.4	47.3	63.4	44.3	536.3
400	40.1	17.3	63.4	43.3	60.4	40.3	535.8
500	45.3	17.3	61.9	41.3	58.9	38.3	535.6
600	50.1	17.3	60.7	39.7	57.7	36.7	535.5

Note: All tests include 401 points on swept frequency measurements and also all electrical characteristics are given at 20°C.

Ordering Guide

Part Number	Description
ANNT144000375C1261	Category 7 - 23 AWG*4 pair U/UTP solid cable, PVC jacket, 305 m, Blue
ANNT145000376C1261	Category 7 - 23 AWG*4 pair F/UTP solid cable, PVC jacket, 305 m, Blue
ANNT146000377C1261	Category 7 - 23 AWG*4 pair SF/UTP solid cable, PVC jacket, 305 m, Blue

COPPER PATCH CORDS

CAT.6 / CAT.6A

Our snag less copper patch cords are the premium solution for data center and switching applications including full compatibility with previous category generations offering the best combination of performance, transmission and physical integrity.

Features

- Specified to 250MHz (Cat.6) and 500MHz (Cat.6A)
- Suitable for Gigabit 1000 BASE-T (IEEE 802.3) applications (Cat.6)
- Suitable for 10G BASE-T, 10 Gigabit Ethernet Applications (Cat.6A)
- Meets or exceeds Cat. 6 & Cat.6A requirements when full relevant product system is used
- 50 micron gold plated RJ45- male-to -male
- PVC, Low Smoke Zero Halogen & Outer Sheath are available
- Multiple selection of lengths and colors can be customized
- 24 AWG stranded bare copper conductor for unshielded; 26 AWG stranded bare copper conductor for shielded
- Backward compatible with previous categories

Ordering Guide

Part Number	Description
ANNT279000227C10601	Category 6, 4 pair stranded U/UTP patch cord, PVC jacket, snag less, 1 mtr
ANNT279000229C10603	Category 6, 4 pair stranded U/UTP patch cord, PVC jacket, snag less, 3 mtr
ANNT280000239C10605	Category 6, 4 pair stranded S/FTP patch cord, PVC jacket, snag less, 5 mtr
ANNT280000240C10610	Category 6, 4 pair stranded S/FTP patch cord, PVC jacket, snag less, 10 mtr
ANNT283000335C11601	Category 6A, 4 pair stranded U/UTP patch cord, PVC jacket, snag less, 1 mtr
ANNT283000336C11602	Category 6A, 4 pair stranded U/UTP patch cord, PVC jacket, snag less, 2 mtr
ANNT285000352C11601	Category 6A, 4 pair stranded U/UTP patch cord, LSZH jacket, snag less, 1 mtr



COPPER PATCH PANEL CAT.6 / CAT.6A

Our patch panels are the ideal and premium solution for data center, voice, audio / video applications. It comes pre loaded or with modular jacks to configure the patch panel which accomadate your variety schemes. It can be mounted to any standard 19 -inch rack, cabinet for your personalised individual or industrial networking requirements.

Features

- Specified to 550Mhz
- Suitable for Gigabit 1000 BASE:TX Gigabit Ethernet applications
- Suitable for 10 BASE-T, Ethernet video, voice and data applications
- Meets or exceeds Cat.6 & Cat.6A requirements when full relevant product system is used
- 50 micron inch gold plating over nickel in contact area for the phosphor bronze jacks
- Shielded and Unshielded along wiht options of modular and pre loaded
- Minimal crosstalk is a key feature provided between the IDC dual contacts
- 24 port and 48 port options available
- Color marking of conductor as per T568B and T568A
- Numeral markings are available on the front side with color and numeral marking of IDC provided at rear end
- Additional space for marking / labelling is provided
- Customization available on special request



Ordering Guide

Part Number	Description
ANNT277000223C10624	Category 6 Unshielded Patch Panel 24 Port with keystone, Black
ANNT277000224C10648	Category 6 Unshielded Patch Panel 48 Port with keystone, Black
ANNT288000335C11624	Category 6A Unshielded Patch Panel 24 Port with keystone, Black
ANNT278000227C10624	Category 6 Unshielded Patch Panel 24 Port modular, Black

COPPER ACCESSORIES

Our keystone jacks are of the highest industry standards. They can be used with the 110 punch down tool. We also have the tool less jack which requires no punch down tool. It can be used in any standard wall plate for network wiring installations and are the ideal solution for terminating and connecting network cables.

Features

- Accepts 26 - 22 AWG solid cables
- RJ45 - female connectors
- Meets or exceeds Cat.6A and Cat.6 requirements when full product system is used
- Pin contacts are phosphor bronze alloy plated with 50 micro-inch of gold IDC
- Meets UL 1863
- Meets ANSI/TIA/EIA-568-B.2 requirements

Ordering Guide

Part Number	Description
ANNT276000217C10690	Cat.6 90° Unshielded Keystone Jack, Dual Type IDC
ANNT276000218C10680	Cat.6 180° Unshielded Keystone Jack, Dual Type IDC
ANNT276000219C10691	Cat.6 90° Shielded Keystone Jack, Dual Type IDC



CERTIFICATES / COMPLIANCE

American Networks and Technologies secures the IT infrastructure to meet a growing number of regulatory requirements as well as our own corporate policies.

We follow the systemized procedure of certified quality management systems with all our factories and are ISO certified across all domains and regulatory.



Delta / FORCE Technology - Certificate

Thousands of clients entrust their products, materials or structures to Delta / FORCE Technology which require highly skilled expertise and unique facilities.



Intertek ETL Verified - Certificate

Intertek's ETL Verified Mark is a symbol of performance integrity of the products that bear the mark by bringing quality assurance and safety across sectors.



UL Listed - Certificate

UL's Ethics & Compliance promotes and maintains a value-driven corporate culture, ensuring that the principles are integrated consistently into our business practices.



ROHS Compliant - Certificate

ROHS restricts the use of hazardous materials found in electrical and electronic products moving collectively for a eco-friendly greener future.



COPPER CATALOG

All the copy rights are reserved by
American Networks and Technolgies
Denver, Colorado
United States of America

HQ - Boulder, 80302
Denver, Colorado – USA
Telephone: 172 089 766 61
E-mail: hq@anntcorp.com

