

Standard UTP Switchboard Cable

24 AWG STC, Unshielded, Riser



ADC provides exceptional 100-Ohm central office copper cables for both analog and digital services. Reducing electromagnetic interference (noise) and maintaining signal integrity enriches data throughput. The improved crosstalk and attenuation of ADC's central office copper cables helps to eliminate throughput bottlenecks at high speeds. Enhanced throughput translates to decreased service downtime and increased customer satisfaction.

As high-speed services move closer and closer to the subscriber premise, size and space become significant obstacles. Many of ADC's central office copper cables have been designed with smaller outside diameters and cross-sectional areas without giving up performance to meet the demanding space requirements of cabinets and remote terminals. ADC's central office copper cables are chosen for their excellent quality, performance, size, and flexibility in many applications, including digital voice, data and video. In addition, ADC's central office copper cables adhere to industry standards and known environmental regulations.

SPEC SHEET



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9/06 • 101308AE Standard UTP Switchboard Cable

Benefits

- Combines innovative design and application engineering to deliver a cabling solution that exceeds your network's physical layer requirements.
- Offers improved crosstalk and attenuation performance to deliver the bandwidth required for digital voice, data and video.
- Helps to eliminate throughput bottlenecks and service downtime, improving customer satisfaction.
- Consistent product quality.
 - No missing insulation, no excess adhesion
 - Tangle-free, kink-free
 - Jacket and insulation concentricity and cable roundness
 - Small outside diameter and cross-sectional area in bundles and cable
 - Streamlined engineering, production, and quality processes
 - In-process manufacturing quality inspections
- Meets or exceeds industry requirements and environmental regulations.
 - Heavy-metal free (i.e. cadmium, lead, mercury, etc.)
 - Compliant to Directive 2002/95/EC Restriction of the use of certain Hazardous Substances (RoHS) and other known environmental regulations
- Provides exceptional design and enhanced electrical and mechanical performance.
- Adheres to strict industry tolerance standards and customer specifications for use throughout major service provider networks around the world

Common Applications

- Central office, including main distribution frames, collocation, digital switching and transmission equipment
- Outside plant networks, including CEV's, cabinets, remote terminals, and at customer premise
- Excellent for all copper broadband applications, including digital voice, digital data (i.e. xDSL), and video (i.e. IPTV)
- FTTN, where copper cable is required from the ONT to the MDU
- Cable assemblies to connect active equipment in CO, OSP and customer premise
- xDSL, particularly ADSL and ADSL2
- T1 Fractional
- POTS (Voice-grade)

Compliances:

- UL Subject 444/CSA C22.2 No. 214
- (UL)-C(UL) Type CMR/CMG
- NEC 800 type CMR
- ICEA S-80-576



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Specifications

CONSTRUCTION CHARACTERISTICS

Conductors:	24 AWG solid tinned copper
Insulation:	Lead-free semi-rigid PVC
Insulation diameter:	0.81 mm (.032") nominal
Pairing:	6.6 twists/meter (2 twists/foot) minimum
Color-coding:	Standard telephony, bandmarked
Rip cord:	Applied under the jacket
Jacket:	Lead-free flame retardant PVC

ELECTRICAL CHARACTERISTICS

Conductor DC resistance (maximum):	9.4Ω/100m (28.6Ω/1000') @ 20° C (68° F)
Resistance unbalance (maximum):	5%
Mutual capacitance:	6.9nF/100m (21.0 pF/ft) nominal @ 1 kHz
Characteristic impedance:	100 ± 20 Ohms @ 1 MHz
Temperature rating:	60° C (140° F)
Voltage rating:	300 VDC

Nominal Attenuation @ 1 MHz:

Pair Count	(dB/1000')	(dB/100m)
2-6	7.2	2.4
Over 6	8.7	2.9

*See back cover for ordering information.

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Ordering Information

Description	Number of Pairs	Unit Makeup	Outer Diameter mm (inches)	Weight Kg/Km (lbs/1000')	Catalog Number
24 AWG STC Unshielded Riser Jacket color: Gray Packaging: Reel	2	None	3.3 (.13)	16.4 (11.0)	T0224H0-GYXX
	3	None	3.6 (.14)	20.8 (14.0)	T0324H0-GYXX
	4	None	4.1 (.16)	26.8 (18.0)	T0424H0-GYXX
	5	None	4.3 (.17)	30 (20.0)	T0524H0-GYXX
	6	None	4.6 (.18)	35.7 (24.0)	T0624H0-GYXX
	8	None	5.1 (.20)	44.6 (30.0)	T0824H0-GYXX
	10	None	5.6 (.22)	52.1 (35.0)	T1024H0-GYXX
	12	None	5.8 (.23)	68.4 (46.0)	T1224H0-GYXX
	16	None	6.1 (.24)	86.3 (58.0)	T1624H0-GYXX
	20	None	7.4 (.29)	96.7 (65.0)	T2024H0-GYXX
	25	None	8.1 (.32)	136.9 (92.0)	T2524H0-GYXX
	32	1 @ 25, 1 @ 7	9.1 (.36)	169.6 (114.0)	T3224H0-GYXX
	40	2 @ 20	10.4 (.41)	193.4 (130.0)	T4024H0-GYXX
	50	2 @ 12, 2 @ 13	11.4 (.45)	261.9 (176.0)	T5024H0-GYXX
	75	3 @ 25	14 (.55)	378 (254.0)	T7524H0-GYXX
	100	4 @ 25	15.7 (.62)	485 (326.0)	T0024H0-GYXX
	125	5 @ 25	17.8 (.70)	648.8 (436.0)	TC224H0-GYXX
	150	6 @ 25	19.1 (.75)	809.5 (544.0)	TC524H0-GYXX
	175	7 @ 25	20.8 (.82)	946 (635.0)	TC724H0-GYXX
	200	8 @ 25	23.1 (.91)	1133.9 (762.0)	TCC24H0-GYXX

*To designate reel length, replace XX as follows:

02 = 304 m (1000 ft)
 04 = 609 m (2000 ft)
 05 = 762 m (2500 ft)
 06 = 914 m (3000 ft)
 10 = 1524 m (5000 ft)

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Web Site: www.adc.com

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