

DS1 VDSL-Grade Transport System Cable

24 AWG STC, Shielded, 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 environmental regulations.

SPEC SHEET



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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 eliminate throughput bottlenecks and service downtime, improving customer satisfaction
- Provides 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
- FTTN, where copper cable is required from the ONT to the MDU
- Cable assemblies to connect active equipment in CO, OSP and customer premise
- All Copper Broadband Technologies, including:
 - Digital Voice, Data and Video
 - xDSL, particularly VDSL and VDSL2
 - DS1/T1
 - DS2/T2
 - DS1C
 - Basic and Primary Rate ISDN
 - 4/16 Mbps Token Ring (IEEE 802.5)
 - 10BASE-T (IEEE 802.3)
 - 52 Mbps ATM (ATM Forum)
 - 100BASE-T4 (Fast Ethernet)
 - 100VG-AnyLAN (IEEE 802.12)



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Compliances:

- UL Subject 444/CSA C22.2 No. 214
- (UL)-C(UL) Type CMR
- NEC 800 Type CMR

Specifications

CONSTRUCTION CHARACTERISTICS

Conductors:	24 AWG solid tinned copper (.0200")
Insulation:	Polyethylene
Insulation diameter:	0.97 mm (.038") nominal
Pairing:	12 twists per foot (min.)
Color-coding:	Standard Telephony, solid colors
Shielding:	Aluminum/polyester foil, face in, 25% overlap
Drain wire:	24 AWG solid tinned copper
Rip cord:	Applied under jacket
Inner jacket:	Lead-free, flame retardant PVC
Outer jacket:	Lead-free, flame retardant PVC

ELECTRICAL CHARACTERISTICS

Conductor DC resistance @ 20° C (maximum):	28.6 Ω/1000 ft (9.38 Ω/100 m)
Resistance unbalance (maximum):	5%
Mutual capacitance:	20 pF/ft (6.6nF/100 m) @ 1 kHz
Characteristic impedance:	100 +/- 15Ω
Temperature rating:	75° C (167° F)
Voltage rating:	300 VDC

Frequency (MHz)	Attenuation (dB/100m) Maximum	Return Loss (dB Minimum)	PSNEXT (dB Minimum)	PSACRF (dB Minimum)
0.772	1.9	19.4	63.0	63.0
1	2.0	20.0	61.3	60.8
4	4.1	23.0	52.3	48.8
8	5.8	24.5	47.8	42.7
10	6.5	25.0	46.3	40.8
16	8.2	25.0	43.2	36.7
20	9.3	25.0	41.8	34.8
25	10.4	24.3	40.3	32.8
31.25	11.7	23.6	38.9	30.9
62.5	17.0	21.5	34.4	24.9
100	22.0	20.1	31.3	20.8

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Ordering Information

Description	Number of Pairs	Unit make up	Outer Diameter mm(inches)	Weight Kg/Km (lbs/1000')	Catalog Number
DS1 VDSL-Grade Transport System Cable 24 AWG STC Shielded, Riser Jacket color: Gray Packaging: Reel	25	2 / 8 / 15	13 (.51)	123 (183)	B5ETRA-2524YYXX

* YY = Jacket color - BL = Blue, GY = Gray, WT = White,

*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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Website: www.adc.com

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