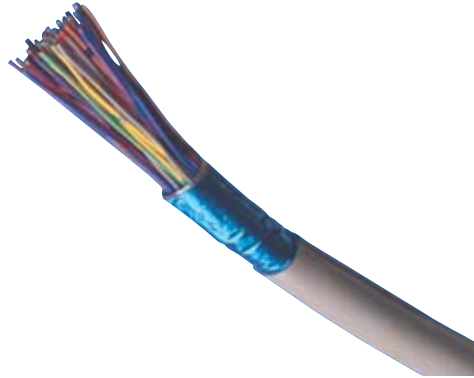


## Category 3 DS1/DS1C/DS2 Transport System Cable

22 AWG STC, Dual Shield, Riser (600C Equiv.)



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.

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## Category 3 DS1/DS1C/DS2 Transport System Cable 22 AWG STC, Dual Shield, Riser (600C Equiv.)

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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
- FTTH, where copper cable is required from the ONT to the MDU
- Cable assemblies to connect active equipment in CO, OSP and customer premise
- Copper Broadband Technologies, including
  - Digital Voice, Data (xDSL) and Video (IPTV)
  - 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)
  - 100 VG-AnyLAN (IEEE 802.12)



# Category 3 DS1/DS1C/DS2 Transport System Cable

22 AWG STC, Dual Shield, Riser (600C Equiv.)

12/09 • 101298AE Cat 3 DS1/DS1C/DS2 Transport System Cable

## Compliances:

- UL Subject 444/CSA C22.2 No. 214
- (UL)-C(UL) Type CMR
- ICEA S-90-661
- Telcordia Technical Audit Report AU-885 Compliance Testing to GR-137-CORE
- Telcordia GR-499 DSX-1 Pulse Wave Shape Compliance at 650 feet
- Two to four-pair, ANSI/TIA-568-C.2 Category 3 Horizontal Cable
- Over four-pair, ANSI/TIA-568-C.2 Category 3 Backbone Cable

## Specifications

### CONSTRUCTION CHARACTERISTICS

<b>Conductors:</b>	22 AWG solid tinned copper
<b>Insulation:</b>	Polyolefin with lead-free PVC skin
<b>Insulation diameter:</b>	1.24 mm (.049") nominal 2 pair and up 1.34 mm (.053") nominal 1 pair
<b>Pairing:</b>	8.2 twists/meter (2.5 twists/foot) minimum
<b>Shielding:</b>	Dual aluminum/polyester
<b>Drain wire:</b>	22 AWG solid tinned copper
<b>Color-coding:</b>	Standard telephony, bandmarked
<b>Rip cord:</b>	Non-hygroscopic and non-wicking
<b>Jacket:</b>	Lead-free flame retardant PVC
<b>Jacket Thickness:</b>	0.76 mm (.030") nominal

### ELECTRICAL CHARACTERISTICS

<b>Conductor DC resistance (maximum):</b>	5.9 $\Omega$ /100 m (18.0 $\Omega$ /1000') @ 20° C (68° F)
<b>Resistance unbalance (maximum):</b>	5%
<b>Insulation resistance:</b>	164 m $\Omega$ /100 m (500 m $\Omega$ /1000') @ 20° C (68° F)
<b>Mutual capacitance:</b>	4.9 nF/100 m (15.0 pF/ft) nominal @ 1 kHz
<b>Characteristic impedance:</b>	100 $\pm$ 15 Ohms @ 1 MHz
<b>Crosstalk:</b>	43 dB @ .772 MHz 40 dB @ 1.575 MHz 32 dB @ 3.156 MHz
<b>Temperature rating:</b>	60° C (140° F)
<b>Voltage rating:</b>	300 VDC

### Nominal Attenuation:

Signal	Frequency (MHz)	Bit Rate	(dB/1000')	(dB/100 m)
DS1	.772	1.544	4.2	1.4
DS1C	1.575	3.152	5.7	1.9
DS2	3.156	6.312	8.4	2.8

## Ordering Information

Description	Number of Pairs	Unit Makeup	Outer Diameter mm (inches)	Weight Kg/Km (lbs/1000')	Catalog Number
<b>22 AWG STC, Dual Shield, Riser</b> Jacket color: Gray Packaging: Reel Equivalent to 600C Series  *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)	1	None	6.6 (.26)	52 (35)	DSR-01222SDGYXX
	2	None	7.1 (.28)	60 (40)	DSR-02222SDGYXX
	4	None	8.3 (.33)	74 (50)	DSR-04222SDGYXX
	6	None	9.1 (.36)	89 (60)	DSR-06222SDGYXX
	8	None	9.3 (.37)	113 (76)	DSR-08222SDGYXX
	12	None	10.6 (.42)	149 (100)	DSR-12222SDGYXX
	16	None	12.7 (.50)	193 (130)	DSR-16222SDGYXX
	20	None	12.9 (.51)	233 (157)	DSR-20222SDGYXX
	25	None	14.7 (.58)	278 (187)	DSR-25222SDGYXX
	28	25 & 3	14.9 (.59)	297 (200)	DSR-28222SDGYXX
	30	25 & 5	15.2 (.60)	307 (206)	DSR-30222SDGYXX
	32	25 & 7	15.4 (.61)	327 (220)	DSR-32222SDGYXX
	50	2 @ 12, 2 @ 13	19.8 (.78)	554 (375)	DSR-50222SDGYXX
	56	2 @ 20, 1 @ 16	20.5 (.81)	573 (385)	DSR-56222SDGYXX
	100	4 @ 25	25.4 (1.0)	976 (659)	DSR-00222SDGYXX

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### Website: [www.adc.com](http://www.adc.com)

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