



**ATT-TP-76480-003**  
**26 AWG Shielded Hardwired Cable (1249C Type)**  
**Issue 1, December 20, 2006**

Description: Aluminum-Polyester Shielded Central Office Cable for Hardwired Use between Network Elements and DSX-1 Type Panels or for Collocation-Related Applications such as DS1(Hi-Capacity and/or DSL Related) and lower speeds

Compliances: UL listed Type MPR/CMR  
ICEA S-90-661  
NEC 800 Type CMR

Construction:

Conductors: 26 AWG solid tinned annealed copper  
Insulation: Fire retardant polyolefin, nominal diameter 0.028"  
Pairing: Tight-Twisting sufficient to meet attenuation and crosstalk requirements  
Insulation Color Coding: See Below  
Binder Colors: See Below  
Shielding: Two(2) longitudinal aluminum foil laminates  
Drain Wire: 24 AWG solid tinned copper  
RipCord: Applied under both jackets  
Inner Jacket: PVC, nominal thickness 0.015"  
Outer Jacket: Gray PVC, nominal thickness 0.020"

Packaging: Available on Reels

Electrical Characteristics: (@ 20 degrees C)

DC Conductor Resistance(max.): 44.2 Ohms/1000 ft  
DC Resistance Unbalance(max.): 5%  
Dielectric Strength: 2500 volts DC or 1500 volts AC for two seconds  
Insulation Resistance(min.): 500 Megohms/1000 ft  
Mutual Capacitance(max.): 17 pF/ft  
Capacitance Unbalance Pair to Pair(max.): 70 pF/100 ft  
Capacitance Unbalance Pair to Ground(max.): 1000 pF/1000 ft  
Attenuation(max.): 6.8 dB/1000 ft @ 0.772 MHz  
7.7 dB/1000 ft @ 1 MHz  
15.2 dB/1000 ft @ 4 MHz  
24 dB/1000 ft @ 10 MHz  
34 dB/1000 ft @ 20 MHz  
Characteristic Impedance: 100 +/- 15 Ohms, 0.772 – 20 MHz

Crosstalk(min.): Near End – 58 dB/1000 ft @ 0.772 MHz  
56 dB/1000 ft @ 1 MHz  
47 dB/1000 ft @ 4 MHz  
41 dB/1000 ft @ 10 MHz  
36.5 dB/1000 ft @ 20 MHz

Operating Temperature(max.): 75 degrees C  
Operating Voltage(max.): 300 VDC

Insulation Color Coding:

<u>Pair</u>	<u>Tip</u>	<u>Ring</u>
1	WH	BL
2	WH	OR
3	WH	GR
4	WH	BR
5	WH	SL
6	RD	BL
7	RD	OR
8	RD	GR
9	RD	BR
10	RD	SL
11	BK	BL
12	BK	OR
13	BK	GR
14	BK	BR
15	BK	SL
16	YL	BL
17	YL	OR
18	YL	GR
19	YL	BR
20	YL	SL
21	VI	BL
22	VI	OR
23	VI	GR
24	VI	BR
25	VI	SL

Unit Binder Colors:

	<u>Outer Unit</u>	<u>Center Unit</u>		
<u>Cable</u>	<u>White Binder</u>	<u>Blue Binder</u>		
28 Pair	Pairs 1 – 25	Pairs 1 – 3		
32 Pair	Pairs 1 – 25	Pairs 1 – 7		
	<u>Blue Unit-1</u>	<u>Blue Unit-2</u>	<u>Orange Unit-1</u>	<u>Orange Unit-2</u>
50 Pair	Pairs 1 – 13	Pairs 14 – 25	Pairs 1 – 13	Pairs 14 – 25
	<u>Blue Unit</u>	<u>Orange Unit</u>	<u>Green Unit</u>	<u>Green Unit</u>
100 Pair	Pairs 1 – 25	Pairs 1 – 25	Pairs 1 – 25	Pairs 1 – 25

Outer Jacket Diameter:

<u>Pairs</u>	<u>Typical Diameter(in)</u>
4	0.25
6	0.28
12	0.34
16	0.37
20	0.41
25	0.43
28	0.44
50	0.55
100	0.65

