

# Tight Twisted Pair Digital Terminating Cable

Spec. 4129 • Type CMR • 1249C Series  
26 AWG Dual Insulated/Shielded/Jacketed

## Product Construction

### Conductors:

- 26 AWG solid tinned annealed copper

### Insulation:

- Inner layer of polyethylene, outer layer of PVC
- Primary insulation, nominal O.D. = 0.022"
- Secondary insulation, nominal O.D. = 0.029"

### Color Code:

- See chart below

### Inner Jacket:

- Flame-retardant gray PVC

### Shields:

- Two polyester-backed aluminum foil shields

### Drain Wire:

- 24 AWG solid tinned copper is placed between the two shields

### Rip Cord:

- Applied longitudinally under jacket

### Jacket:

- Flame-retardant gray PVC

## Packaging

- 1000' reel (RL)
- Bulk reels are available upon request

## Applications

- T1/DS1
- DS1C
- DS2

## Compliances

- Telcordia (Bellcore) analyzed the General Cable 4129 Series - Type 1249C Family of Central Office Cables to the criteria in Telcordia GR-137-CORE. Copies of the analysis report are available from General Cable upon request.
- UL and c(UL) Type CMR

## Features

- Nominal 100 Ohm impedance
- Dual-shielded digital terminating cable is designed for switching and transmission equipment cabling for telephone central office
- Shielding from EMI
- Short twist length for better crosstalk performance

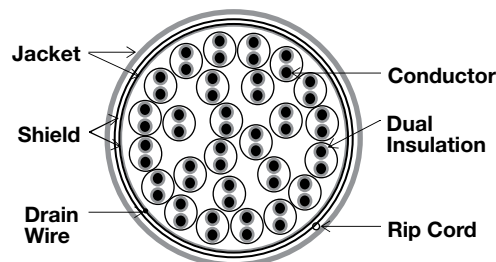


PRODUCT NUMBER	PAIRS	O.D. (INCHES)	WEIGHT (LBS/KFT)
7412920	20	0.41	72
7412928	28	0.44	91

Data subject to change without notice.  
Other pair counts available as special order.

## Electrical Characteristics

		26 AWG
<b>DC Resistance (max)</b> Ohms/100m (328ft) @ 20°C		13.7
<b>Mutual Capacitance (nom)</b> nF/100m @ 1 kHz		5.25
<b>Conductor Resistance Unbalance (max)</b>		5%
<b>Characteristic Impedance</b>		Ohms
Frequency (f):	1.0 MHz	100 ± 15
<b>Capacitance Unbalance</b>		
pF/100m	Pr to Pr	52.5 (max)
	Pr to Ground	330 (max)
<b>Attenuation (nom)</b>		dB/100m
Frequency (f):	0.772 MHz	2.1
	1.024 MHz	2.5
	1.576 MHz	3.0
	3.156 MHz	4.3
	4.224 MHz	4.9



## Color Code Chart

PAIR NO.	TIP	RING	PAIR NO.	TIP	RING
1	White	Blue	14	Black	Brown
2	White	Orange	15	Black	Slate
3	White	Green	16	Yellow	Blue
4	White	Brown	17	Yellow	Orange
5	White	Slate	18	Yellow	Green
6	Red	Blue	19	Yellow	Brown
7	Red	Orange	20	Yellow	Slate
8	Red	Green	21	Violet	Blue
9	Red	Brown	22	Violet	Orange
10	Red	Slate	23	Violet	Green
11	Black	Blue	24	Violet	Brown
12	Black	Orange	25	Violet	Slate
13	Black	Green			

# Tight Twisted Pair Digital Terminating Cable

Spec. 7271 • Type CMR • 1161A Series

24 AWG Shielded/Extended Frequency



PRODUCT NUMBER	PAIRS	O.D. (INCHES)	WEIGHT (LBS/KFT)
7271.01224.S1R	12	0.35	60
7271.02524.S1R	25	0.48	109
7271.02824.S1R	28	0.51	132

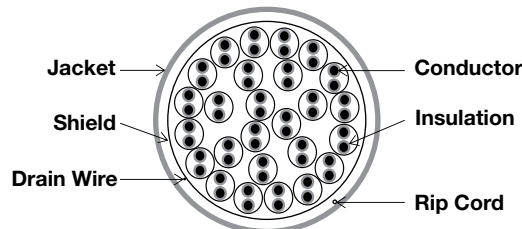
Data subject to change without notice.

## Electrical Characteristics

	24 AWG	Frequency	Attenuation dB/100m	NEXT dB
<b>DC Resistance</b> (max) Ohms/100m (328ft) @ 20°C	9.38	0.772 MHz	1.9	56
<b>Mutual Capacitance</b> (max) pF/ft @ 1 kHz	17	1 MHz	2.2	55
<b>Insulation Resistance</b> (min) (mohms - 1000')	500	4 MHz	4.1	45
<b>Characteristic Impedance</b> Frequency (f): 1.0 MHz	Ohms 100 ± 15	8 MHz	5.0	41
<b>Capacitance Unbalance</b> pF/100m	Pr to Pr 70 (max) Pr to Ground 330 (max)	10 MHz	5.7	39
		16 MHz	7.2	35

## Color Code Chart

PAIR NO.	TIP	RING	PAIR NO.	TIP	RING
1	White	Blue	14	Black	Brown
2	White	Orange	15	Black	Slate
3	White	Green	16	Yellow	Blue
4	White	Brown	17	Yellow	Orange
5	White	Slate	18	Yellow	Green
6	Red	Blue	19	Yellow	Brown
7	Red	Orange	20	Yellow	Slate
8	Red	Green	21	Violet	Blue
9	Red	Brown	22	Violet	Orange
10	Red	Slate	23	Violet	Green
11	Black	Blue	24	Violet	Brown
12	Black	Orange	25	Violet	Slate
13	Black	Green			



## Product Construction

### Conductors

- 24 AWG solid tinned annealed copper

### Insulation:

- High-density polyethylene, nom. = 0.036"

### Pairing:

- Tight pair lays

### Color Code:

- See chart below

### Shield:

- Polyester-backed aluminum foil shield

### Drain Wire:

- 24 AWG solid tinned copper

### Rip Cord:

- Applied longitudinally under jacket

### Jacket:

- Flame-retardant gray PVC

## Packaging

- 1000' reel (RL)
- Bulk reels are available upon request

## Applications

- T1/DS1
- DS1C
- DS2
- 10 BASE-T
- Shielded digital terminating cable is designed for switching and transmission equipment cabling for telephone central office

## Compliances

- TIA/EIA 568 B.2 (Category 3)
- UL and c(UL) Type CMR

## Features

- Nominal 100 Ohm impedance
- Shielding from EMI
- Short twist length for better crosstalk performance

