

Switchboard 100 Ohm



Product Description

Switchboard 100 Central Office (CO) Cables are designed for indoor use in CO exchanges, or in premises telephone rooms. These cables are used for interconnection of distribution frames and digital switching and transmission equipment systems. Switchboard 100 provides 100 Ohm characteristic impedance. The product line consists of 24 or 26 AWG tinned insulated copper wires that are twisted into pairs. The pairs are stranded together utilizing a standard color code scheme.

Applications

- T1/DS1
- T1C/DS1C
- 4 Mbps token ring (IEEE 802.5)
- 10 Mbps 10BASE-T Ethernet (IEEE 802.3)

Features

- 100 Ohm nominal Impedance
- Tinned copper conductors
- CMR listed
- Rip cord
- Band marked

Benefits

- Impedance mismatch with Outside Plant (OSP) cable is minimized
- Minimize change in wire-wrap joint resistance
- Suitable for horizontal and riser installations
- Added ease of jacket removal
- Easy identification of conductor ring mates

Specifications

Conductor	Tinned copper
Insulation	PVC
Jacket	Gray PVC
Jacket Marking	Printed at 2 foot intervals; information includes product identification, pair count, UL information and sequential lengths in feet and meters
Performance Compliance	ASTM B33 - Tinned Copper UL 444 CSA C22.2 No. 214-08 UL 1666 Telcordia GR-137-CORE (select sections) RoHS-compliant
NRTL Programs	UL, c(UL) Listed CMR

Electrical Specifications

Conductor Size AWG (mm)	Conductor DC Resistance @ 68°F (20°C) Maximum Individual Ohms/kft (Ohms/km)	Mutual Capacitance Nominal pF/ft (pF/m)	Characteristic Impedance @ 1 MHz Ohms	Maximum Average Attenuation* @ 0.772 MHz @ 68°F (20°C) dB/kft (dB/km)
24 (0.5)	28.6 (93.8)	20 (66)	100 ± 15	6.3 (20)
26 (0.4)	46.1 (151)	20 (66)	100 ± 15	7.8 (25)

*For cables with 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

Part Numbers and Physical Characteristics

Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
55-041-23	TIW 2/24	2	24 (0.5)	0.14 (4)	10 (15)	1,000 (305)	POP™ box
55-021-23	TIW 2/24	2	24 (0.5)	0.14 (4)	10 (15)	5,000 (1,524)	Reel
55-141-23	TIW 3/24	3	24 (0.5)	0.17 (4)	14 (21)	1,000 (305)	POP box
55-241-23	TIW 4/24 or 286A	4	24 (0.5)	0.18 (5)	18 (27)	1,000 (305)	POP box
55-341-23	TIW 6/24 or 252A	6	24 (0.5)	0.22 (6)	26 (39)	1,000 (305)	POP box
55-F31-23	294A	8	24 (0.5)	0.24 (7)	33 (49)	1,000 (305)	Reel
55-G99-23	TIW 10/24 or 253A	10	24 (0.5)	0.25 (7)	40 (60)	7,000 (2,133)	Reel
55-499-23	TIW 12/24 or 265A	12	24 (0.5)	0.28 (7)	49 (73)	7,000 (2,133)	Reel
55-599-23	TIW 16/24	16	24 (0.5)	0.32 (8)	64 (95)	7,000 (2,133)	Reel
55-699-23	255A	20	24 (0.5)	0.35 (9)	78 (116)	5,000 (1,524)	Reel
55-N99-23	266A	24	24 (0.5)	0.38 (10)	92 (137)	5,000 (1,524)	Reel
55-799-23	TIW 25/24	25	24 (0.5)	0.39 (10)	96 (143)	5,000 (1,524)	Reel
55-899-23	TIW 28/24	28	24 (0.5)	0.41 (10)	107 (159)	5,000 (1,524)	Reel
55-A99-23	TIW 32/24	32	24 (0.5)	0.43 (11)	121 (180)	5,000 (1,524)	Reel
55-P99-23	269A	36	24 (0.5)	0.46 (12)	135 (201)	5,000 (1,524)	Reel
55-Q99-23	257A	40	24 (0.5)	0.48 (12)	149 (222)	5,000 (1,524)	Reel
55-B99-23	TIW 50/24 or 270A	50	24 (0.5)	0.53 (13)	184 (274)	3,000 (914)	Reel
11-003-55*	-	50	24 (0.5)	0.53 (13)	184 (274)	3,000 (914)	Reel
55-S99-23	267A	72	24 (0.5)	0.65 (17)	276 (411)	3,000 (914)	Reel
55-D99-23	TIW 75/24	75	24 (0.5)	0.67 (17)	286 (426)	2,000 (609)	Reel
55-E99-23	TIW 100/24 or 262A	100	24 (0.5)	0.77 (20)	374 (557)	1,000 (305)	Reel
11-003-47*	-	100	24 (0.5)	0.77 (20)	374 (557)	1,000 (305)	Reel
55-U99-23	287A	120	24 (0.5)	0.83 (21)	445 (662)	1,000 (305)	Reel
55-M99-23	TIW 125/24	125	24 (0.5)	0.85 (22)	462 (688)	1,000 (305)	Reel
55-275-26	812A	4	26 (0.4)	0.15 (4)	13 (19)	5,000 (1,524)	Reel
55-399-26	816A	6	26 (0.4)	0.18 (5)	17 (25)	5,000 (1,524)	Reel
55-F99-26	811A	8	26 (0.4)	0.19 (5)	22 (33)	5,000 (1,524)	Reel
55-G99-26	820A	10	26 (0.4)	0.20 (6)	27 (40)	5,000 (1,524)	Reel
55-599-26	807A	16	26 (0.4)	0.25 (7)	41 (61)	5,000 (1,524)	Reel
55-699-26	800A	20	26 (0.4)	0.29 (7)	53 (79)	5,000 (1,524)	Reel
55-799-26	824A	25	26 (0.4)	0.31 (8)	65 (97)	5,000 (1,524)	Reel
55-A99-26	808A	32	26 (0.4)	0.35 (9)	81 (121)	5,000 (1,524)	Reel
55-Q99-26	803A	40	26 (0.4)	0.39 (10)	100 (149)	5,000 (1,524)	Reel
55-P99-26	822A	48	26 (0.4)	0.42 (11)	118 (176)	5,000 (1,524)	Reel
55-B99-26	813A	50	26 (0.4)	0.43 (11)	123 (183)	5,000 (1,524)	Reel
55-R99-26	809A	64	26 (0.4)	0.48 (12)	154 (229)	5,000 (1,524)	Reel
55-K99-26	823A	96	26 (0.4)	0.58 (15)	228 (339)	5,000 (1,524)	Reel
55-E99-26	806A	100	26 (0.4)	0.61 (16)	236 (351)	5,000 (1,524)	Reel
55-H99-26	810A	128	26 (0.4)	0.69 (18)	316 (470)	5,000 (1,524)	Reel
55-L99-26	814A	144	26 (0.4)	0.73 (19)	353 (525)	5,000 (1,524)	Reel

*25-pair unit design

Note: Standard USA Color Code Scheme