

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G34.101.1
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AT&TCo Standard

MULTIPLE LINE WIRE

DESCRIPTION

1. GENERAL

1.01 This section describes the types of multiple line wires available and gives general information about their make-up, color-codes, and characteristics.

1.02 Multiple Line Wire is the general family name given to B Rural Wire, B Rural Distribution Wire, D Rural Wire, B Urban Wire, and C Urban Wire. In general, they consist of individually insulated conductors twisted into pairs which are then stranded about an insulated support wire.

2. MULTIPLE LINE WIRE TYPES

2.01 D Rural Wire supersedes B Rural Wire and B Rural Distribution Wire. It is the same as B Rural Wire except for conductor color coding.

2.02 C Urban Wire supersedes B Urban Wire. It is the same as B Urban Wire except for conductor color coding.

2.03 Table 1 compares the conductors, make-up, color-code and characteristics of all types of multiple line wires.

**TABLE 1
CHARACTERISTICS OF MULTIPLE LINE WIRES**

		B RURAL DISTRIBUTION WIRE	B RURAL WIRE	D RURAL WIRE	B URBAN WIRE	C URBAN WIRE
NUMBER OF PAIRS		←	6	→	←	16
CONDUCTOR:	MATERIAL USED	←	COPPER	→	←	→
	GAUGE (AWG)	←	19	→	←	24
	INSULATION-INNER LAYER	←	BLACK POLYETHYLENE	→	←	COLORED PVC
	INSULATION-OUTER LAYER	←	BLACK PVC	→	←	COLORED PVC
SUPPORT WIRE:	MATERIAL USED	←	GALVANIZED STEEL	→	←	→
	SIZE	←	109E	→	←	→
	INSULATION	←	BLACK POLYETHYLENE	→	←	→
CONSTRUCTION:	PAIR CONSTRUCTION	←	TWISTED	→	←	→
	WIRE CONSTRUCTION	←	LAYER	→	←	FOUR GROUPS
	NO. OF PAIRS IN GROUP	←	—	→	←	4
CHARACTERISTICS:	WEIGHT PER 1000 FT. (LBS.)	←	120	→	←	135
	REEL LENGTH-MAXIMUM FT.	←	—	→	←	4000
	REEL LENGTH-MINIMUM FT.	←	—	→	←	1000
COLOR CODE FOR CONDUCTORS:		<u>TIP</u> <u>RING</u>	<u>TIP</u> <u>RING</u>	<u>TIP</u> <u>RING</u>	<u>TIP</u> <u>RING</u>	<u>TIP</u> <u>RING</u>
	PAIR NO. 1	BLACK * BLACK	BLACK - BLUE	WHITE - BLUE	WHITE - BLUE	WHITE - BLUE
	2	" "	" - RED	" - ORANGE	" - GREEN	" - ORANGE
	3	" "	" - GREEN	" - GREEN	" - BROWN	" - GREEN
	4	" "	" - BROWN	" - BROWN	" - SLATE	" - BROWN
	5	" "	" - SLATE	" - SLATE	RED - BLUE	" - SLATE
	6	" "	" - YELLOW	RED - BLUE	" - GREEN	RED - BLUE
	7				" - BROWN	" - ORANGE
	8				" - SLATE	" - GREEN
	9				BLACK - BLUE	" - BROWN
	10				" - GREEN	" - SLATE
	11				" - BROWN	BLACK - BLUE
	12				" - SLATE	" - ORANGE
	13				YELLOW - BLUE	" - GREEN
	14				" - GREEN	" - BROWN
	15				" - BROWN	" - SLATE
	16				" - SLATE	YELLOW - BLUE

*ONE CONDUCTOR OF PAIR HAS A
RAISED RIDGE FOR TRACER