## Technical Data Sheet

Aluminum Shield | Single Jacket | AirCore

Pair Count 6 - 2400P

Outside Plant Copper Cable - Exchange Cable

### Description

**Conductors:** Solid annealed copper in 19, 22, 24 and 26 AWG.

**Insulation:** Conductors are insulated with solid polyolefin, color coded in accordance with industry standards.

**Twisted Pairs:** Individual conductors are twisted into pairs with varying lay lengths to minimize crosstalk and specific color combinations to provide pair identification.

**Core Assembly:** Cables of 25 pairs or less are assembled into a cylindrical core. Cables larger than 25 pairs are assembled into units, which are then used to assemble the core. Units are individually identifiable by color coded unit binders.

**Core Wrap:** A non-hygroscopic, dielectric tape is applied over the core assembly to provide protection for the core.

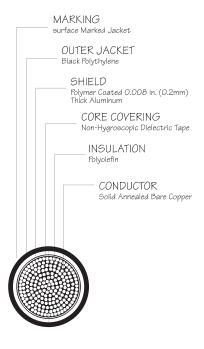
**Shielding:** A corrugated, copolymer coated, 8-mil aluminum tape is applied longitudinally with an overlap.

Jacket: A black, linear low-density polyethylene jacket is applied overall. The jacket provides a tough protective covering designed to withstand exposure to direct sunlight, atmospheric temperature changes and stresses expected in standard installations.

Jacket Markings: Information such as manufacturer's identification, pair count AWG, product identification and a telephone handset is printed at 2 ft. intervals on the cable jacket. Sequential footage markings are printed at alternate 2 ft. intervals.

**Optional Designs:** ALFOUR® cables are also available with an internal screen for use with carrier T1 systems.

#### Cable cut-away



#### **Applications**

4SProducts ALFOUR® cables are designed primarily for aerial use. In addition, they are also commonly used for buried applications. In an aerial application, the cable must be attached to a support strand (messenger). ALFOUR® cables, in 19, 22, 24 and 26 AWG, are capable of meeting the electrical requirements of 100 ohms, Category 3, Backbone UTP cables as specified in TIA/EIA-568-A.

## Qualifications & Approvals

Manufactured to meet requirements of ANSI/ICEA S-85-625-2002; formerly manufactured to REA Specification PE-22 (PE-22 was deactivated by RUS and is superseded by ANSI/ICEA specifications).



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Average mutual capacitance @ 1000 Hz											
Total No. of pairs		nF/r	mile	nF/	km						
12 or Less		83:	± 7	52:	± 4						
Ove	r 12	83:	± 4	52:	± 2						
	Conductor Size		mum ation tance	Maxi	rage Imum uation	Conc	imum luctor tance		tance Ilance	Stre D	ectric ngth oC al Volts
		68 °F (	(20 °C)		(20 °C) kHz		(20 °C) ms)	Maxi	imum	Mini	mum
AWG	mm	Gigohm/ mile	Gigohm/ km	dB/kft	dB/km	mile	km	Avg %	Individual pair %	Cdr to Cdr	Cdr to Ground
19	0.90	1.0	1.6	3.3	10.9	45.0	28.0	1.5	5.0	5,000	10,000
22	0.64	1.0	1.6	4.6	15.3	91.0	56.5	1.5	5.0	4,000	10,000
24	0.50	1.0	1.6	5.7	19.4	144.0	89.5	1.5	5.0	3,000	10,000
26	0.40	1.0	1.6	7.2	23.6	232.0	144.2	1.5	5.0	2,400	10,000

Capacitance unbalance Pair-to-Pair						
Pairs	Maximum	individual	Maximum RMS			
Pairs	ρF/kft	ρF/km	ρF/kft	ρF/km		
12 or Less	80	145	-	-		
more than 12	80	145	25	45		

Capacitance unbalance Pair-to-Ground						
0.:	Maximum	individual	Maximum RMS			
Pairs	ρF/kft	ρF/km	ρF/kft	ρF/km		
12 or less	800	2625	-	-		
more than 12	800	2625	175	574		

Near End Crosstalk (NEXT)	150 kHz	772 kHz
P.S. WUNEXT mean (dB)	58	47
P.S. WUNEXT worst pair (dB)	53	42

Far End Crosstalk (FEXT) @ 150 kHz					
Conductor size (AWG)	19	22	24	26	
P.S. ELFEXT mean (dB)	65	63	63	61	
P.S. ELFEXT worst pair (dB)	59	57	57	57	

Far End Crosstalk (FEXT) @ 772 kHz					
Conductor size (AWG)	19	22	24	26	
P.S. ELFEXT mean (dB)	51	49	49	47	
P.S. ELFEXT worst pair (dB)	45	43	43	43	



