

## Technical Data Sheet

Copper Clad Steel Shield | Single Jacket | Filled - Foam Skin

Pair Count 6 - 2400P

Outside Plant Copper Cable - Exchange Cable

### Description

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

**Insulation:** Conductors are dual insulated with an inner layer of foamed, natural polyolefin covered by an outer layer of solid, colored polyolefin. The conductor insulation is color coded in accordance with industry standards.

**Twisted Pair:** 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.

**Filling Compound:** The core assembly is filled with an 80°C ETPR or PIB base jelly compound, completely filling the interstices between the pairs and under the core wrap.

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

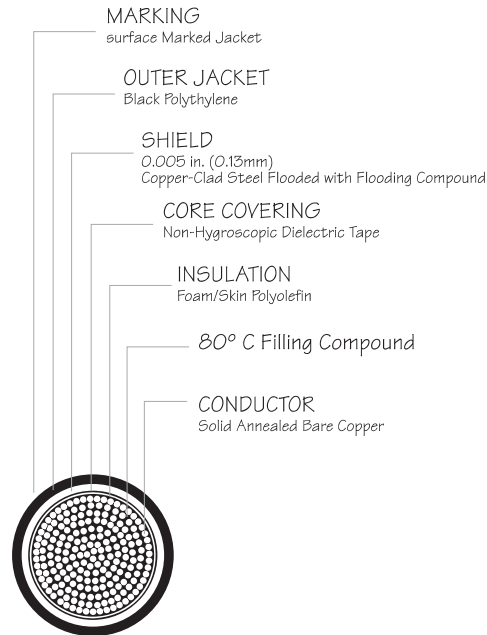
**Shielding:** A corrugated, gopher resistant, copper alloy or copper clad steel tape is applied longitudinally with an overlap. The shield interfaces are flooded with an adhesive compound to provide a moisture barrier and inhibit corrosion.

**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:** CasFOUR®-FS is available with an internal screen for use with T-Carrier systems. CasFOUR®-FS is ALSO available with mechanical protection.

### Cable cut-away



### Applications

4SProducts CasFOUR®-FS cables are designed for direct burial or duct applications where protection from moisture is required. CasFOUR®-FS cables are recommended for use in high-risk areas where additional mechanical or rodent protection is required. CasFOUR®-FS cables may be used aerially, but must be attached to a support strand.

### Qualifications & Approvals

Manufactured to meet requirements of ANSI/ICEA S-84-608-2002, AUS 7 CFR 1755.890 (PE-89).



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Average mutual capacitance @ 1000 Hz											
Total No. of pairs		nF/mile		nF/km							
12 or Less		83 ± 7		52 ± 4							
Over 12		83 ± 4		52 ± 2							
Conductor Size		Minimum Insulation Resistance		Average Maximum Attenuation		Maximum Conductor Resistance		Resistance Unbalance		Dielectric Strength DC Potential Volts	
		68 °F (20 °C)		68 °F (20 °C) 772 kHz		68 °F (20 °C) (ohms)		Maximum		Minimum	
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	3.2	10.5	45.0	28.0	1.5	5.0	4,500	10,000
22	0.64	1.0	1.6	4.5	14.8	91.0	56.5	1.5	5.0	3,600	10,000
24	0.50	1.0	1.6	5.6	18.4	144.0	89.5	1.5	5.0	3,000	10,000

Capacitance unbalance Pair-to-Pair				
Pairs	Maximum individual		Maximum RMS	
	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				
Pairs	Maximum individual		Maximum RMS	
	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)	P.S. WUNEXT worst pair (dB)	P.S. WUNEXT mean (dB)	P.S. WUNEXT worst pair (dB)
	58	53	47	42

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

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



Specifications are subject to change without notice. The data given is subject to normal manufacturing tolerances. 4SProducts Copper Communication Cables are designed and tested in accordance with the requirements of ANSI/TIA/EIA.

