

### Description

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

**Insulation:** Conductors are insulated with solid polyolefin. The conductor insulation is color coded in accordance with industry standard.

**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.

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

**Shielding:** The dual shielding system consists of two metal tapes. Inner: A corrugated, copolymer coated, 8-mil aluminum tape is applied directly over the core wrap. The aluminum tape does not butt or overlap at any point along the length of the cable. Outer: A corrugated, copolymer coated, 6-mil steel tape is applied directly over the aluminum and overlaps. The shield interfaces are flooded with an adhesive compound to provide a moisture barrier and inhibit corrosion.

**Support Member:** A 1/4 inch, 7-strand Extra High Strength (EHS) galvanized steel messenger serves as the support member and is an integral part of the sheath. The messenger is flooded to inhibit corrosion.

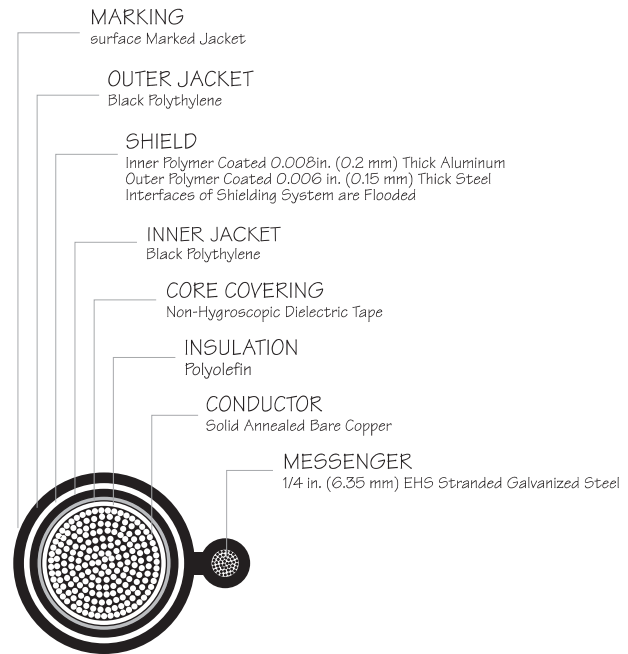
**Outer Jacket:** A black, linear low-density polyethylene jacket is applied overall. The jacket provides a tough protective covering designed to withstand exposure to direct sunlight, atmospheric temperature changes and stresses expected in standard installations.

**Inner Jacket:** A black polyethylene jacket.

**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:** AsFOUR®-2-8 is available with an internal screen for use with T-Carrier systems.

### Cable cut-away



### Applications

4SProducts AsFOUR®-2-8 cables are designed for aerial installations. The core and support member (messenger) lay parallel to each other forming a cross-sectional "Figure 8". The messenger is an integral part of the cable sheath, yet readily available for gripping, pulling and tensioning. Installation is fast and easy using standard methods and hardware.



ELECTRICAL CHARACTERISTICS	Conductor Size							
	AWG				mm			
	19	22	24	26	0.9	0.64	0.5	0.4
All values at or corrected to 20°C.								
<b>Mutual Capacitance</b> nF/mile (nF/km) Average ≤ 12 pair > 12 pair Maximum Individual ≤ 12 pair > 12 pair	83 ± 7 83 ± 4				(52 ± 4) (52 ± 2)			
<b>Capacitance Unbalance</b> pF/kft (pF/km) Pair to Pair Maximum Individual Maximum RMS (> 12 pair) Pair to Ground Maximum Individual Maximum Average (> 12 pair)	80 25 800 175				(145) (45) (2,625) (574)			
<b>Far-End Crosstalk</b> dB/kft (dB/km) Power Sum Mean 0.150 MHz: 0.772 MHz: 1.600 MHz: 3.150 MHz: 6.300 MHz: Power Sum Worst Pair: 0.150 MHz: 0.772 MHz: 1.600 MHz: 3.150 MHz: 6.300 MHz:	65 51 44 39 33	63 49 43 37 31	63 49 42 37 31	61 47 41 35 29	(60) (46) (39) (34) (28)	(58) (44) (38) (32) (26)	(58) (44) (37) (32) (26)	(56) (42) (36) (30) (24)
<b>Near-End Crosstalk</b> dB/kft (dB/km) Power Sum Mean 0.150 MHz: 0.772 MHz: 1.600 MHz: 3.150 MHz: 6.300 MHz: Power Sum Worst Pair: 0.150 MHz: 0.772 MHz: 1.600 MHz: 3.150 MHz: 6.300 MHz:	58 47 43 38 34				(58) (47) (43) (38) (34)			
<b>Attenuation</b> dB/kft (dB/km) Maximum Average (≤ 12 pair) 150 kHz: (> 12 pair) 150 kHz: (≤ 12 pair) 772 kHz: (> 12 pair) 772 kHz:	1.5 1.4 3.6 3.3	2.2 2.0 5.2 4.7	3.0 2.7 6.5 5.9	4.0 3.6 8.1 7.4	(5.1) (4.6) (11.9) (10.8)	(7.3) (6.6) (16.9) (15.4)	(9.8) (8.9) (21.3) (19.4)	(13.0) (11.8) (26.7) (24.3)
<b>Insulation Resistance</b> megaohm-mile (megaohm-km)	1000				(1600)			
<b>High Voltage Test</b> dc Voltage for 3 seconds Conductor-to-Conductor Conductor-to-Shield	5,000 20,000	4,000 20,000	3,000 20,000	2,400 20,000	5,000 20,000	4,000 20,000	3,000 20,000	2,400 20,000
<b>Conductor Resistance</b> Ohm /mile (Ohm /km) Maximum Individual	45.0	91.0	144.0	232.0	(28.0)	(56.6)	(89.5)	(144.2)
<b>Resistance Unbalance</b> Percent Maximum Average Maximum Individual	1.5 5.0				1.5 5.0			



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/ICEA.

