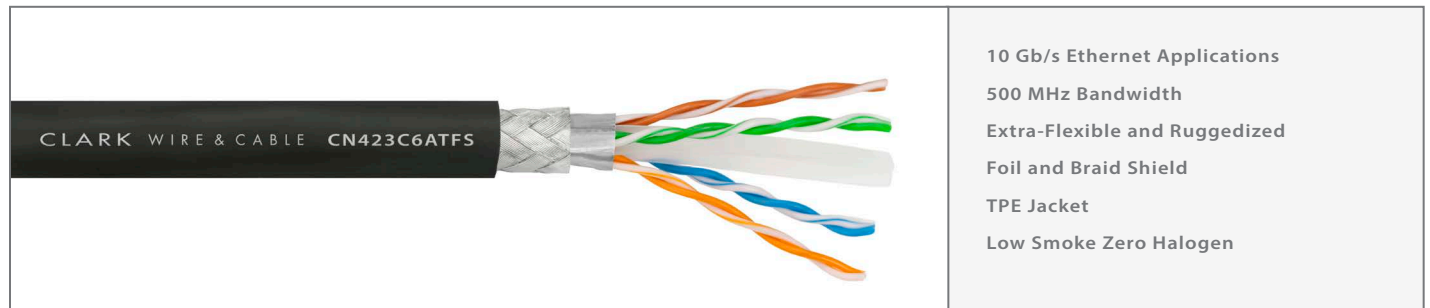


# CN423C6ATFS

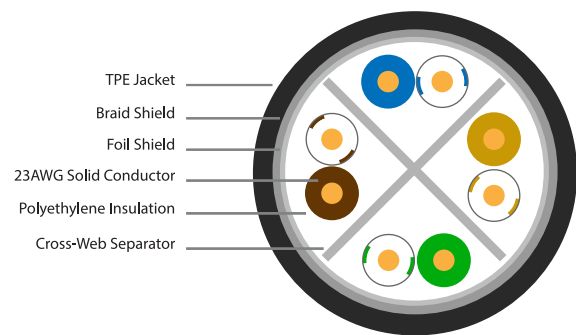
Category 6A 10Gb/s Tactical SF/UTP



Part Number: **CN423C6ATFS**  
 Description: Category 6A 10-Gig Tactical SF/UTP Network Cable

### Materials & Dimensions

|                       |  |
|-----------------------|--|
| Conductors            | (8) 23AWG Solid BC (Configured as 4 Pairs)   |
| Insulation            | Polyethylene, .011" wall   |
| Insulation Color Code | Pair 1: Blue & White w/ Blue Stripe<br>Pair 2: Orange & White w/ Orange Stripe<br>Pair 3: Green & White w/ Green Stripe<br>Pair 4: Brown & White w/ Brown Stripe |
| Separator             | Cross-Web PVC  |
| Shield                | 100% Foil and 85% TC Braid   |
| Jacket                | Flexible TPE (low smoke zero halogen)  |
| Overall Diameter      | .320"  |



### Performance Characteristics

| DCR         | DCR Unbalance | Characteristic Impedance  | Capacitance  | Operating Temperature | Weight     | Agency Listing          |
|-------------|---------------|---|--|-----------------------|------------|-------------------------|
| 9.38 Ω/100m | 3%            | 100Ω (+/- 15) 1 - 100 MHz<br>100Ω (+/- 20) 101 - 250 MHz<br>100Ω (+/- 25) 251 - 500 MHz | 5.6 nF/100m (mutual)<br>330 pF/100m (pair-to-pair ground unbalanced) | -20°C to 75°C         | 55 lbs/Mft | TIA/EIA 568.C.2 - CAT6A |

| Frequency (MHz) |              | 1    | 4    | 8    | 10   | 16   | 20   | 25   | 31.25 | 62.5 | 100  | 200  | 300  | 400  | 500  |
|-----------------|--------------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|
| Insertion Loss  | max. dB/100m | 2.1  | 3.8  | 5.3  | 5.9  | 7.5  | 8.4  | 9.4  | 10.5  | 15.0 | 19.1 | 27.6 | 34.3 | 40.1 | 45.3 |
| Return Loss     | min. dB/100m | 20.0 | 23.0 | 24.5 | 25.0 | 25.0 | 25.0 | 24.3 | 23.6  | 21.5 | 20.1 | 18.0 | 16.8 | 15.9 | 15.2 |
| NEXT            | min. dB/100m | 74.3 | 65.3 | 60.8 | 59.3 | 56.2 | 54.8 | 53.3 | 51.9  | 47.4 | 44.3 | 39.8 | 37.1 | 35.3 | 33.8 |
| PS-NEXT         | min. dB/100m | 72.3 | 63.3 | 58.8 | 57.3 | 54.2 | 52.8 | 51.3 | 49.9  | 45.4 | 42.3 | 37.8 | 35.1 | 33.1 | 31.8 |
| ELFEXT          | min. dB/100m | 67.8 | 55.8 | 49.7 | 47.8 | 43.7 | 41.8 | 39.8 | 37.9  | 31.9 | 27.8 | 21.8 | 18.3 | 15.8 | 13.8 |
| PS-ELFEXT       | min. dB/100m | 64.8 | 52.8 | 46.7 | 44.8 | 40.7 | 38.8 | 36.8 | 34.9  | 28.9 | 24.8 | 18.8 | 15.3 | 12.8 | 10.8 |
| DELAY           | ns/100m      | 570  | 552  | 547  | 545  | 543  | 542  | 541  | 540   | 539  | 538  | 537  | 536  | 536  | 536  |