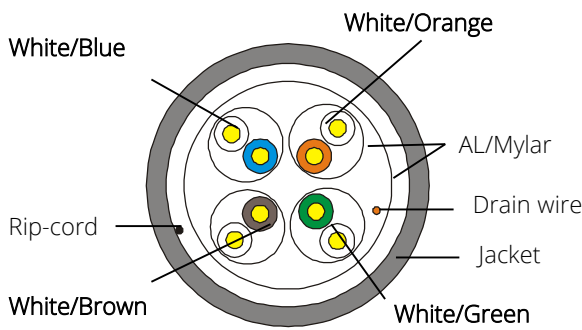


The Giganet Category 6A 500Mhz F/FTP LSOH cable has been designed and manufactured to exceed ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0), IEC 61156-5:2012 (Ed. 2.1) EN 50173-1:2018 / EN 50173-2:2018, EN 50288-10-1:2012 TIA-568.2-D:2018 performance requirements. The cable is ideal for 10 Gigabit networks. The four pairs are individually wrapped with aluminum foil tape with an overall aluminum foil with drain wire to provide immunity from Alien Crosstalk (electromagnetic noise that can occur from one pair to an adjoining cable) and external EMI. The Cat 6A system supports emerging and convergence applications, performance and ease of termination.



### Technical Specifications

| Conductor                  | Material  | Solid-Bare Copper      |                          |
|----------------------------|---|------------------------|--------------------------|
|                            | Nom.O.D.(mm)  | 0.570                  | UP +0.005<br>Down -0.005 |
| Insulation                 | Material  | Skin-foam-skin PE      |                          |
|                            | Diameter  | 1.330±0.05 mm          |                          |
| Screening Material         | Mylar+ AL/Mylar   |                        |                          |
| Sheath                     | Thickness   | 0.55±0.05 mm           |                          |
|                            | External O.D.   | 7.5±0.5 mm             |                          |
|                            | Surface   | Clean                  |                          |
|                            | Material  | LSOH(complies RoHS)    |                          |
|                            | Color   | Purple                 |                          |
| Surface Printing           | Letter height   | 3.0±0.3mm              |                          |
|                            | Color   | Black                  |                          |
|                            | Print error & Space   | ≤±0.5% , 1m            |                          |
| Core Color                 | 1 White- Blue /Blue   | 2 White-Orange /Orange |                          |
|                            | 3 White- Green /Green   | 4 White- Brown /Brown  |                          |
| Rip-cord                   | Yes   | Drain wire             | Yes                      |
| Sheath Physical Properties | Before Aging Tensile Strength (Mpa) ≥13.5<br>Elongation(%) ≥150 |                        |                          |
|                            | Aging Period( °C×hrs) 100°C×24h×10d                             |                        |                          |
|                            | After Aging Tensile Strength(Mpa) ≥12.5<br>Elongation(%) ≥125   |                        |                          |
|                            | Cold bend (-20±2°C×4h) 8×Cable O.D.°C No visible cracks         |                        |                          |



### Ordering Information

| Part Number       | Description                                      |
|-------------------|--|
| GN-C6A-F/FTP-LSOH | Giganet Category 6A Solid F/FTP LSOH Cable- 305M |



### Technical Specifications

|  |  |                |        |
|--|--|----------------|--------|
| <b>Electrical Characteristics (20°C)</b> | Impedance(Ω)   | 1.0-250.0MHz   | 100±15 |
|  |  | 250.0-500.0MHz | 100±22 |
|  | 1.0-500.0MHz Delay Skew (ns/100m)  | ≤45            |        |
|  | Unbalanced-to-ground capacitance (pf/100m)   | max            | 330    |
|  | DC Resistance (Ω/100m)   | max 9.38       |        |
| <b>Installation Temperature</b>          | DC Conductor Resistance Unbalance (%)  | max            | 5.0    |
|  | Minimum  | Maximum        |        |
| <b>Storage Temperature</b>               | -20°C  | +50 °C         |        |
|  | Minimum  | Maximum        |        |
| <b>Operation Temperature</b>             | -20°C  | +60°C          |        |
|  | Minimum  | Maximum        |        |
| <b>Standards</b>                         | -40°C  | +75 °C         |        |
|  | ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0)<br>IEC 61156-5:2012 (Ed. 2.1), EN 50173-1:2018 / EN 50173-2:2018<br>EN 50288-10-1:2012, TIA-568.2-D:2018 |                |        |
| <b>Packaging Length</b>                  | (305±1.5)m   |                |        |

### Performance/Specification Table (100m)

| Frequency (MHz) | RL ≥dB | ATT ≤dB | NEXT ≥dB | PHASE DELAY ≤ns | PSNEXT ≥dB | ELFEXT ≥dB | PSELFEXT ≥dB |
|-----------------|--------|---------|----------|-----------------|------------|------------|--------------|
| 1               | 20.0   | —       | 74.3     | 570.0           | 72.3       | 68.0       | 65.0         |
| 4.0             | 23.0   | 3.8     | 65.3     | 552.0           | 63.3       | 56.0       | 53.0         |
| 8.0             | 24.5   | 5.3     | 60.8     | 546.7           | 58.8       | 49.9       | 46.9         |
| 10.0            | 25.0   | 5.9     | 59.3     | 545.4           | 57.3       | 48.0       | 45.0         |
| 16.0            | 25.0   | 7.5     | 56.2     | 543.0           | 54.2       | 43.9       | 40.9         |
| 20.0            | 25.0   | 8.4     | 54.8     | 542.1           | 52.8       | 42.0       | 39.0         |
| 25.0            | 24.3   | 9.4     | 53.3     | 541.2           | 51.3       | 40.0       | 37.0         |
| 31.25           | 23.6   | 10.5    | 51.9     | 540.4           | 49.9       | 38.1       | 35.1         |
| 62.5            | 21.5   | 15.0    | 47.4     | 538.6           | 45.4       | 32.1       | 29.1         |
| 100             | 20.1   | 19.1    | 44.3     | 537.6           | 42.3       | 28.0       | 25.0         |
| 200             | 18.0   | 27.6    | 39.8     | 536.5           | 37.8       | 22.0       | 19.0         |
| 250             | 17.3   | 31.1    | 38.3     | 536.3           | 36.3       | 20.0       | 17.0         |
| 300             | 16.8   | 34.3    | 37.1     | 536.1           | 35.1       | 18.5       | 15.5         |
| 500             | 15.2   | 45.3    | 33.8     | 535.6           | 31.8       | 14.0       | 11.0         |

### System Warranty:

The Giganet System Warranty provides the end user an exclusive 25 year warranty when installed by a Giganet Certified Installer providing 100% coverage on non consumable products, application assurance and labour covering both link and channel using Giganet cable and connectivity. The warranty requested will depend on the class of cabling based on compliance to Industry standards using an approved performance tester.

