



### CONTACT

Market information  
[industryprojects.business@lynxogroup.com](mailto:industryprojects.business@lynxogroup.com)

**High speed data transmission - Ethernet networks - 100 Mbit/s and in-flight entertainment application.**

100 Ohms, AWG 24 - Shielded Quad

### DESIGN CONSTRUCTION

#### CORE

AWG 24, 19 x 0.13 mm  
 Silver copper stranded  
 FEP insulated

#### ASSEMBLY

4 cores + 1 FEP filler  
 With wrapping tape

#### SHIELD

0.10 mm Silver Copper Braid

#### JACKET

Clear Blue FEP for UV  
 laser marking

## CHARACTERISTICS

### Usage characteristics

Operating temperature, range	-55 ... 125 °C
Storage temperature, range	- °C
Flame retardant	FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)
Oil resistance	Very good resistance to aircraft fluids



Operating temp.  
 -55 ... 125 °C



Storage temperature, range  
 - °C



Flame retardant  
 FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)



Oil resistance  
 Very good resistance to aircraft fluids

**ELECTRICAL AND HIGH FREQUENCY PERFORMANCES**

Loop resistance at 20°C	: 19.2 Ω/100m max.
Insulation resistance at 20°C	: 1500 MΩ.Km
Impedance from 1 to 100 MHz	: 100 ± 15 Ω
Velocity of propagation	: ≥ 70 %
Next, from 1 to 100 MHz	: > 68 - 15 x log (F) dB
Nominal attenuation values	: 2.1 dB/100m at 1 MHz
	: 4.1 dB/100m at 4 MHz
	: 6.5 dB/100m at 10 MHz
	: 8.2 dB/100m at 16 MHz
	: 9.3 dB/100m at 20 MHz
	: 11.7 dB/100m at 31.25 MHz
	: 17 dB/100m at 62.5 MHz
	: 22 dB/100m at 100 MHz

**IDENTIFICATION**

Colour of cores	: Blue + Red + Yellow + Green
Inkjet marking pitch length	: ≈ 300 mm
Pitch length between the two next marking	: ≈ 150 mm
Marking text	: "AB KD 24 FR F ***"
With	(**) = Year of manufacturing (ie. 14 = 2014)



Operating temp.  
-55 ... 125 °C



Storage temperature, range  
- °C



Flame retardant  
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)



Oil resistance  
Very good resistance to aircraft fluids