

ABS 1503 KD 24

Shielded quad 100 Ohms

Applications

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

600 Volts RMS

Construction

4 CONDUCTORS

19 x 0.13 mm silver copper
stranded AWG 24
FEP Insulated
 $\varnothing = 1.40 \pm 0.05$ mm
Color : Blue, Red, Yellow,
Green

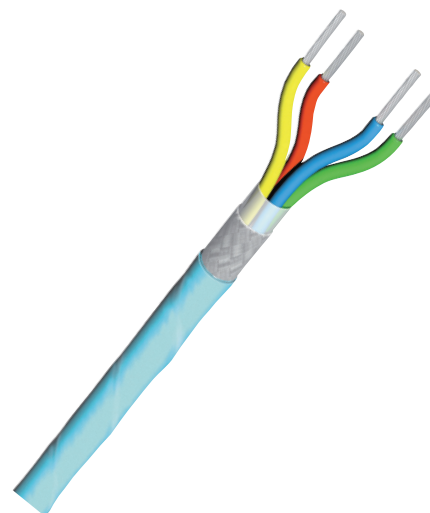
Natural FEP filler

SCREEN

Wrapping tape
0.10 mm silver copper braid
 $\varnothing = 3.90 \pm 0.15$ mm

SHEATH

Clear blue FEP jacket for UV
laser marking
 $\varnothing = 4.40 \pm 0.20$ mm



Other characteristics



Minimum Bending Radius
Static = 20 mm

Standards

ABS 1503

Nexans part number

Study 2PF870



-55°C to +125°C
(operating temperature)
-55°C to +200°C
(storage temperature)



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

■ ABS 1503 KD 24 - Electrical characteristics

Loop resistance at 20°C (Max)		19.2 Ω /100 m
Insulation resistance at 20°C		1500 M Ω .km
Impedance		100 Ω \pm 15 Ω from 1 to 100 MHz
Velocity of propagation		$\geq 70\%$
N.E.X.T.		$> 68 - 15 \times \log (F)$ dB from 1 to 100 MHz
Attenuation at (nominal values)	1 MHz	2.1 dB/100m
	4 MHz	4.1 dB/100m
	10 MHz	6.5 dB/100m
	16 MHz	8.2 dB/100m
	20 MHz	9.3 dB/100m
	31.25 MHz	11.7 dB/100m
	62.5 MHz	17 dB/100m
	100 MHz	22 dB/100m

■ ABS 1503 KD 24 - Physical characteristics

Nominal weight	40.28 g/m
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■ Identification

Inkjet marking pitch length \approx 300 mm

Pitch length between the two next marking \approx 150 mm

AB KD 24 FR F "year of manufacturing"