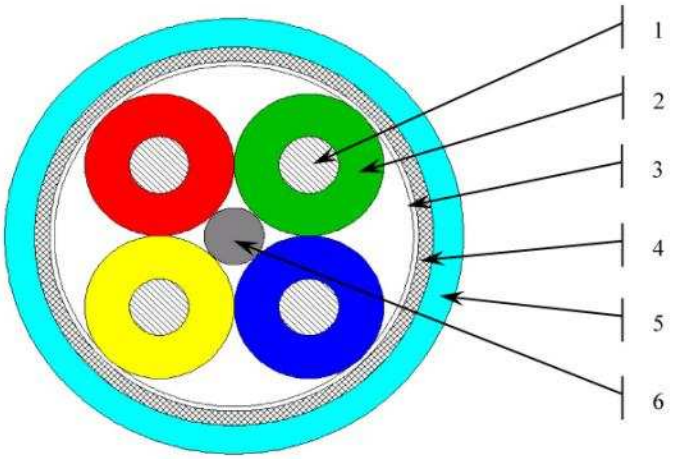
Prysmian Group	STAR QUAD INFLIGHT ABS 0972 KB24	Data Sheet F 4704-4	PRYSMIAN Draka

1 – CONSTRUCTION



Item	Designation	Component details	Characteristics
1	Conductor	Silver Coated Copper AWG 24 (19 strands)	Nominal ∅ 0.62 mm *(0.0245 inch)*
2	Insulation	Extruded Fluoropolymer	1.44 ≤ Ø ≤ 1.54 *(0.057 ≤ Ø ≤ 0.061 inch)*
3	Protection tape	Synthetic	
4	Braid	Round Silver Coated Copper	Coverage 80%
5	Jacket	Extruded Fluoropolymer	Maximal ∅ : 5 mm *(Max. Ø : 0.197 inch)* Nominal ∅ : 4.45 mm *(Nom. Ø : 0.175 inch)*
6	Filler	Fluoropolymer	

COLOUR CODE AND MARKING

- Insulation : - Pair n°1 : Core 1-R : Red (Tx +)
  Core 1-B : Blue (Tx -)
- Pair n°2 : Core 2-Y : Yellow (Rx +)
  Core 2-G : Green (Rx -)

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D	20/10/11	PIG	New lay out
C	20/01/11	CBO	New lay out
B	14/04/05	CEA	Add of ABS reference
A	20/08/03	CEA	First Issue
Approval : EBA	**Date**	**Author**	**Modifications**

- Jacket : Colour : light blue UV laser markable
- Marking : « ……. KB24 FR A xx yy KB24 FR A xx …….. »

xx = Year code
yy = extremity code
(A-B ou B-A)

View extremity "A"

View extremity "B"

2 – PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS:

- Operating temperatures:	- 65°C to + 125°C
- Storage temperatures:	-65°C to +200°C
- Mass:	45 kg/km max *(3.45 Lb/100 ft max)*
- Flame propagation:	Following FAR 25.869 and EN3475-407
- Smoke density & toxicity	Following ABD 031C (test time 4 mn)
- Fluid resistance:	Following EN 3475 § 411
- Laser markability:	≥ 50 % (following EN 3838, EN 3475-705 and EN 3475-706)

3 – ELECTRICAL CHARACTERISTICS AT 20°C:

- Maximal Voltage:	600 V AC
- Dielectric withstand:	Between conductor and between conductor/shield : - DC = 1 kV 1mn - AC = 0,7 kV 1mn
- Maximal loop resistance:	192 Ω/km *(58.5 Ω/1000 ft)*
- Insulation Resistance:	≥ 1500 MΩ.km *(about 5000 MΩ. 1000 ft)*

Transmission parameters:

- Characteristic Impedance:	Zc RMS : 100 ± 15 Ω [1-100 MHz] at 20°C
- Velocity of propagation:	> 70 at 31.25 MHz
- Capacitance:	60 pF/m Max. *(18.3 pF/ft Max.) at 1 kHz*

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Frequency In MHz	Attenuation at 20°C Maximal value in dB/100m *(dB/100 ft)*	Near End crosstalk (NEXT) Minimal value in dB
1	2.1 *(0.64)*	68
4	4.3 *(1.31)*	59
10	6.6 *(2.01)*	53
16	8.7 *(2.65)*	50
20	9.7 *(2.96)*	48
31.25	12.5 *(3.8)*	46
62.5	18.0 *(5.5)*	41
100	25.0 *(7.6)*	38

- SRL (Min.) : $1 < F < 20$ Mhz = 23 dB
  $20 < F < 100$ Mhz = $23 - 10 \log(F/20)$

- Transfer Impedance (Max.) **:**
  0.01Mhz to 5 Mhz = $2{,}0\ 10^{-2}$ Ω/m *(0.61 Ω/100ft)*
  at 10 Mhz = $3{,}0\ 10^{-2}$ Ω/m *(0.92 Ω/100ft)*
  at 20 Mhz = $4{,}5\ 10^{-2}$ Ω/m *(1.37 Ω/100ft)*
  at 50 Mhz = $10\ 10^{-2}$ Ω/m *(3.05 Ω/100ft)*
  at 100 Mhz = $40\ 10^{-2}$ Ω/m *(12.2 Ω/100ft)*

4 – MECHANICAL CHARACTERISTICS:

Minimum bend radius:	Dynamic: 47 mm
	Static (installed): 24 mm
Jacket abrasion resistance:	Following EN 3475 § 503
Tensile strength of the cable :	≥ 500N

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