

Data BUS 77Ω AWG24 EN3375-004C

Cables specification: EN3375-004



Short designation: EN WJ24

Cable, electrical, for digital data transmission, type WJ



Cable characteristics


-65 +200°C


Excellent


FAR25_ ABD0031

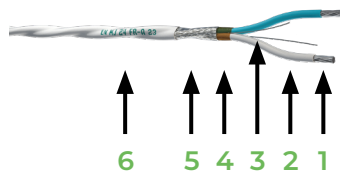
Environmental

- Operating temperature: -65°C to 200°C (ambient temperature + current heating)
- Resistant to Aircraft fluids (oils, hydrocarbons, kerosene, skydrols...), Chemical agents

Electrical

- For information: Maximum voltage rating 600 V AC
- Characteristic Impedance: $77 \pm 7 \Omega$ at 1 MHz
- Capacitance: 78 pF/m max. (70 pF/m nominal)
- Attenuation: $\leq 3.6\text{dB}/100\text{m}$ at 1 MHz
- Transfer Impedance (Z_t max. in $\text{m}\Omega/\text{m}$):
 - direct current: 15
 - 1 MHz: 5
 - 10 MHz: 5
 - 30 MHz: 10

Cable design



1. Stranded conductor: Silver plated copper
2. Insulation: Fluoropolymer
3. Fluoropolymer filler
4. Polyimide tape
5. Silver plated copper Braid
6. Fluoropolymer, UV-laser markable

Identification

- Core color: White and Blue
- Cable color: White

Marking

Marking text	Standard reference	Draka designation	Marking color
EN WJ 24 FRA XX	EN3375-004 C	WJC24 BUS EN3375-004C	Green
EN WJ R 24 FRA XX	EN3375-004 C 01	WJC24 BUS EN3375-004C01	Red (main line)
EN WJ B 24 FRA XX	EN3375-004 C 02	WJC24 BUS EN3375-004C02	Blue (branch line)

EN WJ 24 or EN WJ R 24 or EN WJ B 24: Short designation

FR: Country of Origin

A: Manufacturer (A: Draka)

XX: Manufacturing year

Specifications

Cable specification

EN3375-004 cable, electrical, for digital data transmission

Part 004: Double braid - 77 Ohms - Type WJ - Product standard

Technical Specification

EN3375-001

Compliant to ABD0031

Flammability, Smoke and Toxicity requirements and 14 CFR FAR25-1713

Dimensional

Conductor construction	Conductor diameter		Linear resistance max. at 20°C	Insulation diameter max.	Braid strand diameter nominal	1st braid diameter max.	2nd braid diameter max.	Cable outer diameter		Weight max.	Min. bend radius
	min.	max.						min.	max.		
nb x Ø mm	mm <i>inch</i>	mm <i>inch</i>	Ω/km <i>Ω/1000ft</i>	mm <i>inch</i>	mm <i>inch</i>	mm <i>inch</i>	mm <i>inch</i>	mm <i>inch</i>	mm <i>inch</i>	kg/km <i>lbs/1000ft</i>	mm
19 x 0,12	0.55 <i>0.0216</i>	0.62 <i>0.0244</i>	109 <i>33.22</i>	1.30 <i>0.051</i>	0.10 <i>0.0039</i>	3.00 <i>0.1181</i>	3.50 <i>0.1377</i>	3.40 <i>0.1338</i>	3.90 <i>0.1535</i>	37 <i>24.86</i>	26



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