

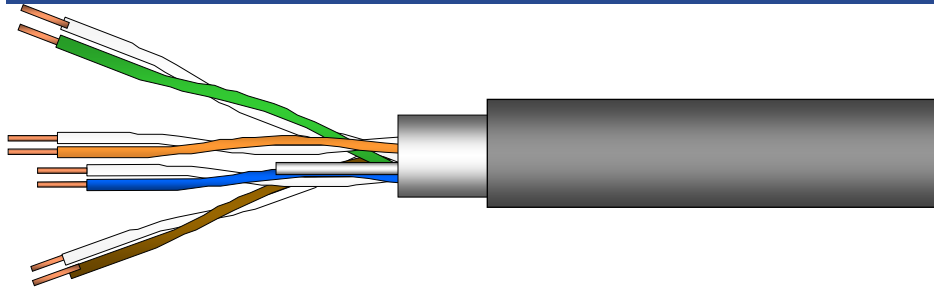


## Category 5e F/UTP

**J-2Y(St)Y 4x2x0.51** (AWG 24)

100Ω Data Cable IEC 61156-5 CAT-5e

100Ω Data Cable EN50288-3-1: 100MHz



### Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T  
IEEE 802.5 16 MB; ISDN; FDDI; ATM

### Standards

ISO/IEC 11801 2<sup>nd</sup> ed; IEC 61156-5  
EN 50173; EN 50288-3-1

### Fire rating

IEC60332-1-2

### Construction

Conductor	bare copper wire Ø 0.51 mm (AWG24)
Insulation	Solid Polyethylene, Ø 1.03 mm nom
Twisting	2 cores to the pair
Cable lay up	1x4 pairs to the core
Pair screen	N/A
Overall screen	Al-laminated plastic foil,
Sheath	PVC/LSHF: OD 6.00mm



## Category 5e F/UTP

### Mechanical Properties

Bending radius	without load	8 x (OD)
	with load	12 x (OD)
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

### Electrical Properties

at 20°C ± 5°C

DC loop resistance		≤ 169 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 2000 MΩxkm
Capacitance	at 800 Hz	Nom. 50 nF/km
Capacitance unbalance	(pair to ground)	≤ 1500 pF/km
Return Loss	(100 MHz)	23.0dB
Nominal velocity of propagation		approx. 66%
Propagation delay		≤ 427 ns/100 m
Delay skew		≤ 45 ns/100 m
Test voltage	(DC, 1 min) Core/Core and Core/Screen	1000 V

F (MHZ)	Attenuation (dB/100m) Nominal	NEXT (dB)	PS-NEXT (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1.0	2.1	65	62	68	65	20
4.0	3.7	56	53	56	53	23
10.0	6.0	50	47	48	45	25
16.0	7.6	47	44	44	41	25
20.0	8.5	45	42	42	39	25
31.2	10.7	40	40	38	35	24
62.5	15.7	38	35	32	29	22
100.0	21.0	35	32	28	25	20



## Category 5e F/UTP

### Annex A

#### Measured Limits, Factory Inspection

**Conductor** – Plain and Soft Copper

Dimensions	Tolerance	Visual	Elongation an Break
0.51mm	± 0.005	Shiny and bright	9% min: nom 22%± 4%

#### Insulation

Dimensions	Tolerance	Eccentricity	Elongation an Break
0.51/1.03 mm	± 0.02mm	± 0.015mm	125% min nom 600%± 50%
0.51/1.03 mm	± 0.02mm	± 0.015mm	125% min nom 600%± 50%
Colours	RAL		
Blue	5015*		
Orange	2004*		
Green	6018*		
Brown	8003*		
White	9010*		

\* guidance only

#### Jacket

Dimensions	Tolerance	Radial Thickness	Elongation at Break	Tensile strength
6.00mm	± 0.20mm Min (point) 0.36mm	± 0.1mm	125%	Min 9 Mpa Nom 16.9 ± 0.4Mpa
Colour	RAL 7035			
Grey				
Print Legend	<b>DRAKA - UC300 SCREEN 24 CATEGORY 5e F/UTP 4P IEC 61156-5 (PVC/LSOH) 04 B</b> YMMDDhhmm #####m			

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