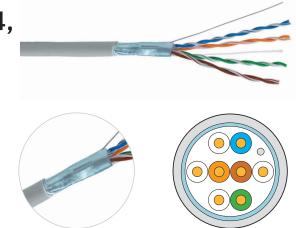
## KELINE

# FTP (F/UTP) cable 4x2xAWG24, Category 5E, 300 MHz, Euroclass E<sub>ca</sub>

P/N: KE300S24-Eca P/N: KE300S24-Eca-RL					
500 m on reels	305 m in a box				
1	200				

MHz

Cat. 5E



#### **Features**

\_\_\_\_\_ Gigabit

- cable shielded with AL/PET foil, PVC sheath
- enables transmission of all high-speed protocols including 1000BASE-T
- tested in bandwidth up to 300 MHz
- enables RJ45 connectors to be mounted directly to the cable

#### Application

- primary (Campus), secondary (Riser), tertiary (Horizontal)
- IEEE 802.3: 10BASE-T; 100BASE-TX; 1000BASE-T
- IEEE 802.5: 16 MB; ISDN; TPDDI; ATM

#### Construction

Conductor	bare copper wire, AWG24
Insulation	polyethylene, Ø 1,00 mm
Twisting	2 cores to the pair
Screen	Al-laminated plastic foil
Cable lay up	4 pairs to the core
Sheath	PVC, gray RAL 7035
Outer cable diameter	5,8 mm



#### **Reaction to fire and flame resistance**

Reaction to fire	E <sub>ca</sub>	
	flame retardancy	IEC 60332-1-2
Fire safety	smoke performance	_
	halogen acidicy	-

### **Mechanical properties**

Min bonding radius	installation	47 mm
Min. bending radius	operation	24 mm
T	installation	0°C to +50°C
Temperature range	operation	-20 °C to +60 °C
Max. tensile load		80 N (8 kg)
Cable weight		35 kg/km

## Electrical properties at 20°C

Loop resistance	-	≤ 190 Ω/ km
Resistance unbalance	-	≤ 2 %
Insulation resistance	(500V)	≥ 2 000 MΩ x km
Capacity	at 800 Hz	nom. 48 nF/ km
Capacity unbalance	(pair/ground)	≤ 1500 pF/ km
Characteristic impedance	at 100 MHz	(100 ± 15) Ω
Nominal velocity of propagation (NVP)	-	cca 69 %
Propagation delay	Nominal	≤ 535 ns/ 100 m
Delay skew	Nominal	≤ 20 ns/ 100 m
Test voltage	(DC, 1 min) core/core; core/screen	1 000 V
	at 1MHz	≤ 50mΩ/ m
Transfer impendance	at 10MHz	≤ 100mΩ/ m
	at 30MHz	≤ 200mΩ/ m
Coupling attenuation	_	≥ 55dB



#### Transmission properties at 20°C

f (MHz)	Attenuation (dB/100m)	NEXT (dB min)	PS-NEXT (dB min)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1,0	1,9	71,0	68,0	69,1	66,1	68,0	65,0	20,0
4,0	3,7	62,0	59,0	58,3	55,3	56,0	53,0	23,0
10,0	6,0	56,0	53,0	50,0	47,0	48,0	45,0	25,0
16,0	7,6	53,0	50,0	45,4	42,4	44,0	41,0	25,0
20,0	8,5	51,0	48,0	42,5	39,5	42,0	39,0	25,0
31,2	10,7	49,0	46,0	38,3	35,3	38,0	35,0	24,0
62,5	15,7	44,0	41,0	28,3	25,3	32,0	29,0	22,0
100,0	19,8	41,0	38,0	21,2	18,2	28,0	25,0	20,0
125,0	22,3	40,0	37,0	17,7	14,7	26,0	23,0	19,0
155,5	24,2	38,0	35,0	13,8	10,8	24,0	21,0	_
175,5	25,7	37,0	34,0	11,3	8,3	23,0	20,0	_
200,0	27,5	36,0	33,0	8,5	5,5	22,0	19,0	_
250,0	29,2	35,0	32,0	5,8	2,8	20,0	17,0	_
300,0	32,0	34,0	31,0	2,0	-1,0	16,0	13,0	_



The determination of Reaction to Fire Class Performance of this cable has been performed by Product Certification Body notified by European Commision, which also carries out the assessment and verification of constant performance (AVCP) in the System 3.