

CCTV FTP (F/UTP) cable 4x2xAWG25, Category 5E, 100 MHz, Euroclass E_{ca}

P/N: KECCTVS25-Eca-RLX

305 m in a box

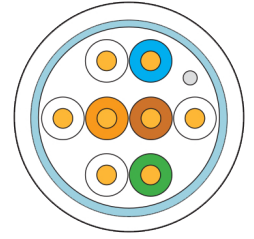
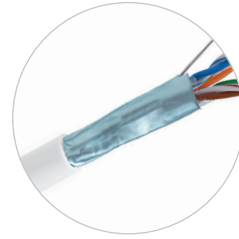
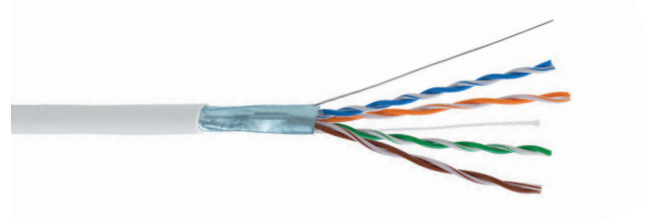
CCTV
Security

Cat. 5E

100
MHz

PoE
type 4

E_{ca}



Features

- cable shielded with AL/PET foil, PVC sheath
- designed for CCTV and security systems
- enables transmission of all high-speed protocols up to 1000BASE-T
- tested in bandwidth up to 100 MHz
- enables RJ45 connectors to be mounted directly on a cable

Application

- tertiary (Horizontal)
- IEEE 802.3: 10BASE-T; 100BASE-TX; 1000BASE-T
- IEEE 802.5: 16 MB; ISDN; TPDDI; ATM
- IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt

Construction

Conductor	bare copper wire, AWG25
Insulation	HD polyethylene, Ø 1,0 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated PET foil, tinned drain wire
Cable lay up	4 pairs to the core
Sheath	PVC, white
Outer cable diameter	5,8 mm

Reaction to fire and flame resistance

Reaction to fire	E _{ca}	
Fire safety	flame retardancy	IEC 60332-1-2
	smoke performance	-
	halogen acidity	-

Mechanical properties

Min. bending radius	installation	46 mm
	operation	23 mm
Temperature range	installation	0°C to +60°C
	operation	-15°C to +75°C
Max. tensile load		80 N (8 kg)
Weight (netto)		35 kg/km

Electrical properties at 20°C

Loop resistance	—	≤ 12 Ω/100 m
Resistance unbalance	—	≤ 2 %
Insulation resistance	(500 V)	≥ 5 000 MΩ x km
Capacity unbalance	(pair/ground)	≤ 1600 pF/km
Characteristic impedance	at 100 MHz	(100 ± 15) Ω
Nominal velocity of propagation (NVP)	—	cca 69 %

Transmission properties at 20°C

f (MHz)	Attenuation (dB/100 m)	NEXT (dB min)	PS-NEXT (dB min)	ACR-F (dB/100 m)	PS-ACR-F (dB/100 m)	Return loss (dB)
1,0	3,0	60,0	57,0	58,6	55,6	19,0
4,0	3,9	54,8	51,8	46,6	43,6	19,0
10,0	6,2	48,5	45,5	38,6	35,6	19,0
16,0	7,9	45,2	42,2	34,5	31,5	19,0
20,0	8,9	43,7	40,7	32,6	29,6	19,0
31,25	11,2	40,5	37,5	28,7	25,7	17,1
62,5	16,2	35,7	32,7	22,7	19,7	14,1
100,0	21,0	32,3	29,3	18,6	15,8	12,0



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