

Outdoor FTP (F/UTP) cable 4x2xAWG24, Category 5E, 300 MHz, PE

P/N: KE300S24PE-RLX

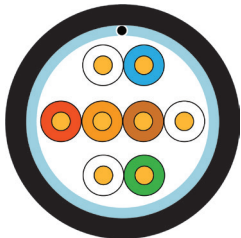
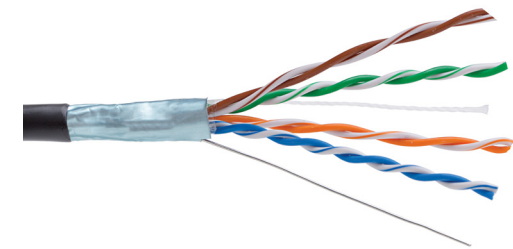
1
Gigabit

Cat. 5E

300
MHz

OUTDOOR

PE



Features

- PE sheath with thickness of 0,6 mm
- resistant to mechanical damage and environmental influences
- resistant to moisture, water and UV radiation
- cable core is identical with construction of KE300S24-Eca
- enables RJ45 connectors to be mounted directly to a cable
- enables transmission of all high-speed protocols including 1000BASE-T
- tested in bandwidth up to 300 MHz

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	solid bare copper wire AWG24
Insulation	polyethylene, Ø 1,0 mm
Twisting	2 cores to the pair
Screen	Al-foil
Cable lay up	4 pairs to the core
Sheath	PE, black RAL 9005
Outer cable diameter	6,2 mm
PE sheath thickness	0,6 mm

Mechanical properties

Min. bending radius	installation	50 mm
	operation	25 mm
Temperature range	installation	0 °C to +50 °C
	operation	-20 °C to +60 °C
Max. tensile load		110 N (11 kg)
Cable weight (netto)		35 kg/ km

Electrical properties at 20°C

Loop resistance	-	≤ 95,8 Ω/ km
Resistance unbalance	-	≤ 5 %
Insulation resistance	(500 V)	≥ 5 000 MΩ x km
Capacity	at 800 Hz	nom. 56 nF/ km
Capacity unbalance	(pair/ground)	≤ 330 pF/ 100 m
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)	1 000 V
	core/core; core/screen	
Transfer impedance	at 1 MHz	≤ 50 mΩ/ m
	at 10 MHz	≤ 100 mΩ/ m
	at 30 MHz	≤ 200 mΩ/ m
Coupling attenuation	-	≥ 55 dB

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	-