

Outdoor / direct burial STP cable 4x2xAWG23 Category 6_A, 550 MHz, with double-sheath, PE



P/N: KE550HS230UT

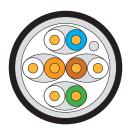












Features

- double sheath with total thickness of 1,7 mm
- extremely resistant to mechanical damage and environmental influences
- resistant to moisture, water and UV radiation
- cable core is identical with construction of KE550HS23/1E-Dca
- enables transmission of all high-speed protocols including 10GBASE-T
- tested in a bandwidth up to $550 \ \text{MHz}$

Application

- primary (Campus), secondary (Riser), tertiary (Horizontal)
- IEEE 802.3: 10BASE-T; 100BASE-TX; 1000BASE-T; 10GBASE-T
- IEEE 802.5 16 MB; ISDN; FDDI; ATM
- high bandwidth digital applications with low BER

Conductor		bare copper wire, AWG 23		
Insulation		foamskin polyethylene, Ø 1,28 mm		
Twisting		2 cores to the pair		
Pair screen		Al-laminated plastic foil		
Cable lay up		4 pairs to the core		
Sheath	outer	PE, black RAL9005		
Sneath	inner	LSOH, gray RAL 7035		
Outer cable diameter		8,7 mm		
Outer PE sheath thickness		0,9 mm		
Inner sheath thickness		0,8 mm		



installation	70 mm	
operation	35 mm	
installation	0 °C to +50 °C	
operation	-20 °C to +70 °C	
	100 N (10 kg)	
	67 kg/km	
	installation operation installation	installation 70 mm operation 35 mm installation 0 °C to +50 °C operation -20 °C to +70 °C 100 N (10 kg)

Loop resistance	_	≤ 145 Ω/km	
Resistance unbalance	_	≤ 2 %	
Insulation resistance	(500V)	≥ 5 000 MΩ x km	
Capacity	at 800 Hz	nom. 43 nF/km	
Capacity unbalance	(pair/ground)	≤ 1500 pF/km	
Characteristic impedance	1 – 100 MHz	100 ± 5 Ω	
characteristic impedance	100 – 250 MHz	$100 \pm 10 \Omega$	
Nominal velocity of propagation (NVP)	_	cca 78 %	
Propagation delay	Nominal	≤ 450 ns/100 m	
Delay skew	Nominal	≤ 15 ns/100 m	
Test voltage	(DC, 1 min) core/core; core/screen	1 000 V	
	at 1 MHz	≤ 50 mΩ/m	
Transfer impendance	at 10 MHz	≤ 100 mΩ/m	
Transfer impendance	at 30 MHz	≤ 200 mΩ/m	
	at 100 MHz	≤ 1000 mΩ/m	
Coupling attenuation	Typ II (≥ 55 dB @ 100 MHz)	Alien crosstalk (ANEXT, AFEXT) is proven by design	



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	100,0	97,0	97,0	94,0	103,0	100,0	_
4,0	3,5	100,0	97,0	96,0	93,0	103,0	100,0	26,0
10,0	5,5	100,0	97,0	94,0	91,0	96,0	93,0	29,0
16,0	6,9	100,0	97,0	92,0	89,0	92,0	90,0	29,0
20,0	7,8	100,0	97,0	91,0	88,0	90,0	87,0	29,0
31,2	9,7	100,0	97,0	89,6	86,0	86,0	83,0	28,0
62,5	13,8	100,0	97,0	85,0	82,0	80,0	77,0	27,0
100,0	17,7	99,0	96,0	82,0	80,0	76,0	73,0	25,0
125,0	19,6	94,0	91,0	74,0	71,0	74,0	71,0	24,0
155,5	22,3	93,0	90,0	71,0	68,0	72,0	69,0	24,0
175,5	23,4	92,0	89,0	69,0	66,0	72,0	69,0	23,0
200,0	25,3	91,0	88,0	66,0	63,0	70,0	67,0	23,0
250,0	28,7	89,0	86,0	61,0	58,0	68,0	65,0	22,0
300,0	32,3	88,0	85,0	57,0	54,0	66,0	63,0	22,0
400,0	38,0	86,0	83,0	47,0	45,0	63,0	60,0	21,0
500,0	41,2	84,0	81,0	39,0	36,0	60,0	57,0	20,0
550,0	43,5	83,0	80,0	33,0	30,0	58,0	55,0	18,0



This product is certified on a component level by FORCE Technology international independent laboratories according to ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0) / IEC 61156-5:2020 (Ed. 3.0), EN 50173-1:2018 / EN 50173-2:2018, EN 50288-10-1:2012, TIA-568.2-D:2018, IEC 60332-1-1:2015 (Ed. 1.1) / IEC 60332-1-2:2015 (Ed. 1.1), IEC 60754-2:2019 (Ed. 2.1), IEC 61034-1:2019 (Ed. 3.2) / IEC 61034-2:2019 (Ed. 3.2).

Mass production of this product is under permanent supervision of third party international laboratories performing FORCE Technology EC VERIFIED quality audit of the manufacturer's production.