

Cat 5e F/UTP 4x2x24AWG



Technical information

- Temperature range flexible 0°C up to +50°C, fixed -20°C up to +60°C
 - Minimum bending radius flexible 8x cable Ø, fixed 4x cable Ø
 - Operating voltage; max. 125 V
 - Test voltage; 1,0 kV DC for 1 minute
 - Conductor resistance @20°C; max. 93,8 Ohm/km
 - Conductor resistance unbalance @20°C; max. 2%
 - Velocity of propagation @100MHz max. 534 nsec/100m and NVP 69%
 - Skew @100MHz; max. 40 nsec/100 mt
 - Mutual capacitance; nom. 50 nF/km
 - Characteristic impedance @100MHz; nom. 100±15 Ohm
 - Transfer impedance; 1-30MHz max. 50 mOhm/m
 - Coupling attenuation; 30-100MHz min. 55dB
 - Insulation resistance; min. 5 G.Ohm x km
- Cable according to ANSI/TIA 568-C.2**

TSE : TSE K 116
ANSI : TIA 568-C.2

CE : Low Voltage Directive 2006/95/EC
RoHS compliant

Cable construction

- Annealed solid copper conductor; Ø0,51mm (AWG 24)
- Core insulation solid HDPE; acc. to EN 50290 2-23
- Core and pair identification acc. to IEC 189 and IEC 708
- Cores twisted in pairs and pairs stranded together in layers with optimal lay-length
- Polyester tape used as separator over cores
- Tinned copper drain wire AWG 26, electrostatic screen of plastic coated aluminium foil
- Outer sheath, flame resistant PVC or LSZH compound;

PVC sheath: Grey RAL 7035, type YM1 acc. to DIN VDE 0207 part 5, type TM51 acc. to EN 50290 2-22

LSZH sheath: Yellow RAL 1021, Orange RAL 2003, Blue RAL 5015, type HM2 acc. to DIN VDE 0207 part 24, type 70°C acc. to EN 50290 2-27

PE sheath: Black, type LDPE acc. to EN 50290 2-24

Features

- Vertical flame propagation for PVC and LSZH acc. to DIN VDE 0482-332-1-2, EN 60332 1-2, IEC 60332 1-2
- Corrosive gas measurement only for LSZH acc. to DIN VDE 0482-267-2-2, EN 50267-2-2, IEC 60754
- Smoke density only for LSZH acc. to DIN VDE 0482-1034-2, EN 61034-2, IEC 61034-2

Application

Datacomm® Cat 5e F/UTP 100 Ω 4x2xAWG 24 premium grade Class D cable for building structured premises cabling, to support Ethernet protocol for installation in horizontal and backbone areas. They are characterized by large performance reserves and outstanding performance. Transmission of digital and analogue signals, voice, video and data applications. Especially suitable for services such as Ethernet 10 Base-T, Fast Ethernet 100 Base-T, ATM155, FDDI, token ring 4/16 Mbit/s, or ISDN.

Category	5e													
	1		4		16		31,25		62,50		100		155	
Frekans [MHz]	Spec.	Typ.	Spec.	Typ.	Spec.	Typ.	Spec.	Typ.	Spec.	Typ.	Spec.	Typ.	Spec.	Typ.
Ins. Loss [dB/100m]	2,0	1,9	4,1	3,9	8,2	8,0	11,7	11,2	17,0	16,5	22,0	20,8	N/A	26,3
NEXT [dB]	65	81	56	72	47	71	43	54	38	53	35	50	N/A	46
PS NEXT [dB]	62	79	53	69	44	63	40	53	35	50	32	45	N/A	44
ACRF [dB/100m]	64	82	52	70	40	57	34	52	28	47	24	43	N/A	36
PS ACRF [dB/100m]	61	79	49	68	37	55	31	50	25	44	21	40	N/A	34
Pro. Del. [dB]	570	476	552	480	543	479	540	477	539	477	538	476	N/A	475
Ret. Loss [dB]	20,0	23	23,0	33,6	25,0	31,4	23,6	32	21,5	29,1	20,1	27,5	N/A	25,5

Part No.	Dim.	Sheath	Colour	Outer Ø app.	Cu weight	Cable weight	Fire load		Packing
				[mm]	[kg/km]	[kg/km]	[MJ/m]	[kWh/m]	[m]
3030001	4x2xAWG24	FR-PVC	Grey	6,0	17	41	0,58	0,16	305/500/1000
3030012	4x2xAWG24	LSZH/LSOH	Yellow	6,0	17	42	0,52	0,14	305/500/1000
3030103	4x2xAWG24	PE	Black	6,0	17	42	0,52	0,14	305/500/1000