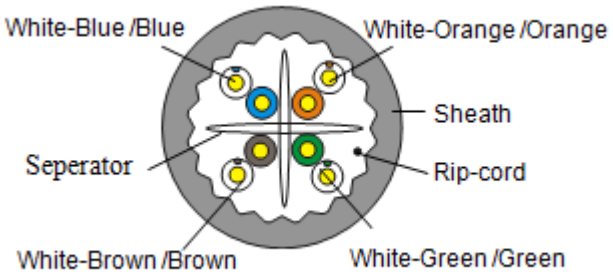
Datasheet

InfraLan cable U/UTP Cat.6A LSZH, 500 Mhz, Class Dca,s2,d2,a1

DK-ICD6AUW-V1



Application/approvals

Application:	Primary (Campus), Secondary (Riser), Tertiary (Horizontal) IEEE 802.3an: 10Base-T, 100Base-TX, 1000Base-T, 10GBase-T IEEE 802.5, 16Mbit, ISDN, TPDDI, ATM IEEE 802.3af-2002: POE, IEEE 802.3at: POE+(30W), IEEE 802.3bt: PoE+ (90W)
Standards:	ISO/IEC 11801-1:2017, ISO/IEC11801-2:2017, EN50173-1:2018, EN50173-2:2018
Fire protection:	IEC 60332-1
Reaction to fire:	EN50399, EN50575
Halogenfree:	IEC 60754
Low smoke:	IEC 61034
Segragation Class:	C, EN50174-2
CPR:	Class Dca,s2,d2,a1
DoP:	DoP-DK-0103, Notified body 0199

Construction

Conductor:	Solid Bare Cupper Wire Nom.OD = 0,565mm (AWG23) +/-0,005
Conductor Insulation:	HDPE, Diameter = 1,02 +/-0,03mm
Outer Diameter:	7,3mm +/-0,3
Sheath material:	LSZH (low Smoke zero Halogeen) RoHS Compliant
Shielded pair:	No
Overall Shielded:	No
Drain Wire:	No
Sheath Color:	White RAL9003
Sheath printing:	Letter hight 3,0mm +/-0,3 ”Description + batchno. + meter marking”
Core Color pair 1:	White-Blue / blue
Core Color pair 2:	White-Orange/ Orange
Core Color pair 3:	White-Green / Green
Core Color pair 4:	White-Brown / brown

Electrical Characteristics (at 20°C)

Impedance :	100Ω +/-15
Delay skew:	≤45 ns/100m
DC Resistance :	< 9,5Ω/100 mtr
Velocity ration (NVP) :	69%
High Voltage Test :	1KV/DC 1 min.

InfraLan cable U/UTP Cat.6A LSZH, Class D,s2,d2,a1 DK-ICD6AUW-V1

Mechanical Charasteristics

Bending Radius :	4 x cable O.D. without load / 8 x cable O.D. with load
Temperature range:	During Operation: -20℃ - +75℃ / During Installation: -0℃ - +50℃
Pull Force :	100N
Water resistance test:	Withstand Water penetration at maximum 1 mtr. within min. 30 days at 20℃ +/-5

Technical Performance (100 mtr)

Frequency MHz	RL ≥dB	Att. (20°C) ≤ dB	NEXT ≥ dB	PHASE DELAY ≤ ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥ dB
1	20.0	2.1	74.3	570.0	72.3	67.8	64.8
4.0	23.0	3.8	65.3	552.0	63.3	55.8	52.8
8.0	24.5	5.3	60.8	546.7	58.8	49.7	46.7
10.0	25.0	5.9	59.3	545.4	57.3	47.8	44.8
16.0	25.0	7.5	56.2	543.0	54.2	43.7	40.7
20.0	25.0	8.4	54.8	542.1	52.8	41.8	38.8
25.0	24.3	9.4	53.3	541.2	51.3	39.8	36.8
31.25	23.6	10.5	51.9	540.4	49.9	37.9	34.9
62.5	21.5	15.0	47.4	538.6	45.4	31.9	28.9
100	20.1	19.1	44.3	537.6	42.3	27.8	24.8
200	18.0	27.6	39.8	536.5	37.8	21.8	18.8
250	17.3	31.1	38.3	536.3	36.3	19.8	16.8
300	16.8	34.3	37.1	536.1	35.1	18.3	15.3
500	15.2	45.3	33.8	535.6	31.8	13.8	10.8

Package Information

500 mtr. drum :	Dimension:	DxH, 38/16x39cm Wodden drum with label
	Netto weight:	23,7 kg
	Brutto weight:	26,0 kg
305 mtr. Box:	Dimension:	DxH, 38,5 x 32,5 x 38,5cm reel in box with label
	Netto weight:	17,1 kg
	Brutto weight:	17,1 kg

Ordering Information

Order no.	EAN	Description	Color	Packsize
DK-ICD6AUW.500-V1	5705721137503	InfraLan Cable Cat.6A, U/UTP, LSZH, Class Dca	White	500 mtr.
DK-ICD6AUW.305-V1	5705721144761	InfraLan Cable Cat.6A, U/UTP, LSZH, Class Dca	White	305 mtr.