

U/UTP CAT6A E1 4PR PE



CERTIFICATIONS AND DESIGN STANDARDS

- IEC 61156-5
- ANSI/TIA 568.2-D
- EN 50288-10-1
- EN 50173
- ISO/IEC 11801
- EN 50575
- EN 50399
- EN 13501-6

**Fire Reaction**

Class: Fca  
(according to EN 13501-6)

RoHS

DoP



Compliance Statement



CoC



GENERAL INFORMATION

Primary (Campus), Secondary (Riser), Tertiary (Horizontal); IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T  
IEEE802.5 ; ISDN, TPDDI, ATM, CATV, IP Cameras, Broadband Video, SOHO-Cabling; Power over Ethernet (PoE) / Type 1-4

CABLE FEATURES

- 10BASE-T (IEEE 802.3)
- 4/16 Mbps TOKEN RING (IEEE 802.5)
- 100BASE-VG-AnyLAN
- 100 Mbps TP-PMD (ANSI X3T9.5)
- 100BASE-T (IEEE 802.3)
- 55/155 Mbps ATM
- 1000BASE-T (Gigabit Ethernet)
- 1.2 / 2.4 Gbps ATM
- PoE++ ; Type 1, 2, 3 e 4; Power :Up to 100 [W]

Note: Data cables are not indicated for low impedance applications like heating, Lighting, etc....

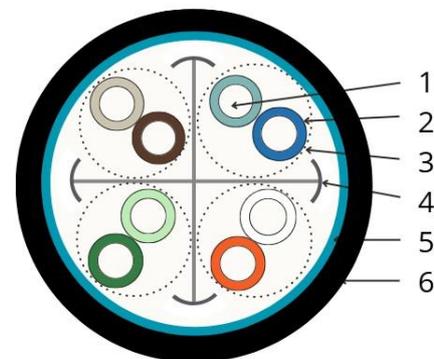
CABLE CONSTRUCTION

- 1 – Conductor: 23 AWG, Solid Bare Annealed Copper
- 2 – Insulation: Polyolefin Foam-Skin
- 3 – Formation: Varying short pair lay-length (4 pairs)
- 4 – Cross Filler
- 5 – NEXT Encapsulated Barrier
- 6 – Outer Sheath: PE material

Pair	Color
1	Light Blue / Blue
2	White / Orange
3	Light Green / Green
4	Light Brown / Brown

**Sheath Color**

- BLACK (BK)



(not at scale)

APPLICATION PROPERTIES

Storage Temperature	: -20 °C a +70 °C
Operating Temperature	: -20 °C a +70 °C
Laying Temperature	: 0 °C a +50 °C
(recommendation prior installation, storage 24h at 20 °C)	

ELECTRICAL PROPERTIES

Max. dc resistance (Ω/km) (Typical value) @20 °C	: 75
Nom. mutual capacitance (nF/km) @1kHz	: 56
NVP (% of light speed)	: 70
Mean Characteristic Impedance (Ω)	: 100 ± 5 @ 100MHz
Mean Characteristic Impedance (Ω) (Typical value)	: 100 ± 5 @ 100MHz
Propagation delay (Typical value) (ns @10MHz)	: max. 518
Delay skew (Skew) (ns/100m)	: max. 40
Coupling Att dB (min.)	@30-100MHz : 55
	@100-1000MHz : 55-20log(f/100)
Max. pulling tension (N)	: 80
Min. bending radius (mm)	: Installation 8xD; Installed 4x D

TRANSMISSION CHARACTERISTICS (at 20°C)

Freq MHz	Attenuation (Insertion Loss) dB/100m		NEXT dB		PS-NEXT dB	ELFEXT (ACR-F) dB/100 m	PS-ELFEXT (PSACR-F) dB/100m	ACR (dB/100m)	PS-ACR dB/100 m	RL dB/100m	
	Std (max.)	(Typical)	Std (min.)	(Typical)	(min.)	(min.)	(min.)	(min.)	(min.)	Std (min.)	(Typical)
1*	2,1	1,9	75,3	84,3	72,3	68,0	65,0	73,2	70,2	20,0	--
4	3,8	3,7	66,3	75,3	63,3	56,0	53,0	62,5	59,5	23,0	25,0
10	5,9	5,7	60,3	69,3	57,3	48,0	45,0	54,4	51,4	25,0	30,0
16	7,5	7,2	57,2	66,2	54,2	43,9	40,9	49,8	46,8	25,0	30,0
20	8,4	8,0	55,8	64,8	52,8	42,0	39,0	47,4	44,4	25,0	31,0
31,25	10,5	9,0	52,9	61,9	49,9	38,1	35,1	42,4	39,4	23,6	28,6
62,5	15,0	10,0	48,4	57,4	45,4	32,1	29,1	33,4	30,4	21,5	26,5
100	19,1	14,4	45,3	54,3	42,3	28,0	25,0	26,2	23,2	20,1	25,1
200	27,6	18,4	40,8	49,8	37,8	22,0	19,0	13,2	10,2	18,0	23,0
250	31,1	29,7	39,3	48,3	36,3	20,0	17,0	8,3	5,3	17,3	22,3
300	34,3	30,6	38,1	47,1	35,1	18,5	15,5	3,9	0,9	17,3	23,3
500	45,3	40,9	34,8	43,8	31,8	14,0	11,0	---	---	17,3	22,8
600*	50,1	45,2	33,6	42,6	30,6	12,4	9,4	---	---	17,3	24,0

\* For information only.  
Note: Provided values for Attenuation are considered for 20 °C.

PRODUCT ORDER DATA

SAP Code / Package	Quantity	Palett
60119915 / Coil 100m (BK)	4,8km/Palett	1200x800
60119935 / Coil 50m (BK)	5,4km/Palett	1200x800

Euroclasse	Approx. Outer diameter (mm)	Approx. Weight (kg/km)
Fca	7,5	44,6