

KRM6CA, Kerman Category 6A U/FTP - LSZH 4 pair and 2 x 4 pair cable

High speed data transmission cables for backbone distribution local computer networks, supported by the class F and for use at frequencies of up to 500 MHz.



## Design & Materials

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Conductor Material:	Annealed Bare Copper
Conductor Size:	23 AWG
Conductor Construction:	Solid
Insulation Material:	Cellular PO
Insulation O.D.:	1.35 ± 0,05 mm
Color code:	Per TIA/EIA 568-B
Total number of wires:	4 pair (Dual 2 x 4 pair)
Pair shield	Aluminum / Polyester Foil
Drain Wire	Tinned Copper
Outer Jacket Material:	FR-LSZH
Outer Jacket Color:	RAL7035 Light Gray
Marking:	Length (m) and Kerman id.
Outer Diameter:	7.4 mm nom. (Dual 7.4 / 15 mm)
Weight:	52 kg/km (Dual 104 kg/km)

**General Construction:** Four (Dual Eight) individually foil shielded twisted pairs are cabled together into two cores.  
The two cores are laid in parallel and jacketed (dual in a FIG-8)

**Applications:** Data-Centers/SANs, Indoor use, fixed installations,  
High bandwidth digital applications with low BER, High data rates

### Technical Performance (100m):

Freq. MHz	Attenuation dB/100m	PS NEXT Loss / dB	NEXT Loss DB	RL /dB	ELFEXT dB	PS ELFEXT dB	PS ANNEXT dB
	Typical	Typical	Min	Min	Min	Min	Max
1	3,0	95,0	98,0	22,0	88,0	85,0	70
4	5,6	95,0	98,0	25,0	76,0	73,0	70
10	8,7	95,0	98,0	28,0	68,0	65,0	70
20	12,4	90,0	93,0	28,0	62,0	59,0	70
30	15,3	85,0	88,0	27,0	58,4	55,4	70
100	29,0	80,0	83,0	24,0	48,0	45,0	67
200	42,5	78,0	81,0	21,0	52,0	49,0	65
250	48,2	75,0	78,0	20,0	40,0	37,0	63
500	71,9	70,0	73,0	19,0	34,0	31,0	59

Cables meet the minimum Cat. 6A transmission requirements as per IEC 61156-6 Ed. 2

## Performance

Frequency Range:	1 - 500 MHz
Impedance:	100 Ω
Max. Resistance Unbalance:	2 %
Capacitance Unbalance:	1.2 pF/m max.
Velocity of Propagation:	74 % nom.
Propagation Delay Skew:	35 ns/100m max.
Dielectric Strength:	700 V/minute
Dielectric Strength to Shield:	700 V/minute
Min. Insulation Resistance :	5 GΩ·km
Max. Tensile Strength -	220 N max (Short Term)
Min. Bend Radius:	120 mm
Max. Operating Temperature:	+65 °C
Min. Operating Temperature:	-30 °C

Applicable Standards:	IEC 61156, ISO/IEC 11801
Flamability Rating:	IEC 60332-1, IEC 60754, IEC 61034

## Cables information

Reference	Jacket	Pairs AWG23	Max Diameter	Wteight / km	kg	Drum size m
KRM6CAF42	LSZH	4	7,4	51		305 / 500
KRM6CAF242	LSZH	2 x 4	7,4 / 15	102		500