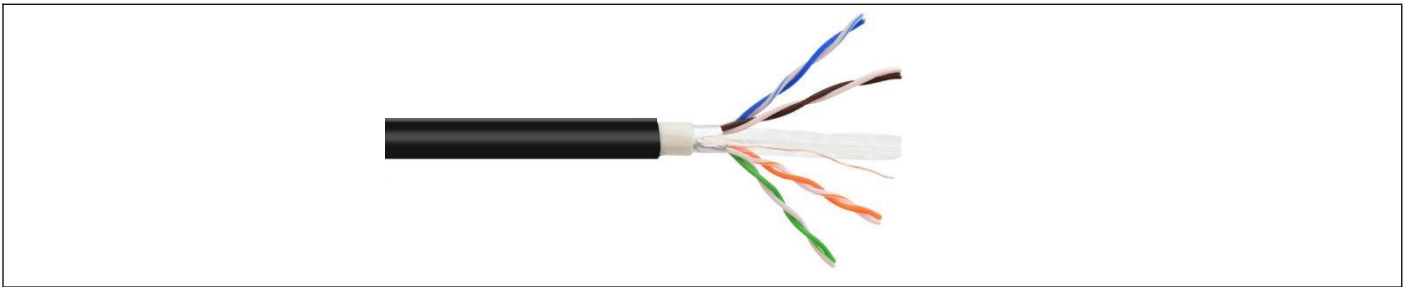


CAT6A FTP 100Ω

PRODUCT IMAGE 产品图片



APPLICATION SCENARIOS 应用场景

- 企业布线、数据中心接入层、高清视频会议系统、远程医疗、万兆 NAS 网络、智慧教室
Enterprise cabling, data center access layer, high-definition video conferencing system, remote medical services, 10-gigabit NAS network, smart classrooms
- 优化射频特性, 包括 500MHz 带宽下的近端串扰、外部串扰、回波损耗、衰减及特性阻抗
Optimize the RF characteristics, including near-end crosstalk, external crosstalk, return loss, attenuation and characteristic impedance at 500 MHz bandwidth.
- 具有 1~500MHz 的宽带能力, 向下兼容 100/1000BASE-T, 支持 2.5G/5G/10GBASE-T 及高功率 PoE 单向/双向通信系统
It has a wideband capability ranging from 1 to 500 MHz, is backward compatible with 100/1000BASE-T, and supports 2.5G/5G/10GBASE-T as well as high-power PoE unidirectional/bidirectional communication systems.

PRODUCT DESCRIPTION 产品描述

Application	Product Description
100Base-TX, 100Base-T4,	Rated Temperature: 60°C, 75°C, 90°C
100VG-AnyLAN	Bare solid copper conductor or cca
1000Base-T, (Gigabit Ethernet), ATM	RoHS Complied PVC, PE, LSZH Jacket
	Complies to TIA/EIA-568B&ISO/IEC11801

CABLE CONSTRUCTION 电缆结构

Item No.	CAT6A FTP-1	CAT6 FTP-2
Construction	FTP	FTP
Conductor Dimension(mm)	0.56	0.57
Core Dimension(mm)	1.03	1.05
No. of Pairs	4	4
Nom. OD(mm)	7.3	7.3
Remark	500MHz	500MHz

ELECTRICAL CHARACTERISTICS 电气特性

Frequency(MHZ)	1	4	8	10	16	20	25	31.25	62.5	100	155	200	250	500
Impedance(Ω)	100±15													
RL(dB)	20	23	25	25	25	25	24	24	22	21	21	21	18	15.2
Attenuation(dB/100m)	1.9	3.7	5.3	5.9	7.5	8.4	9.5	10.6	15.4	19.8	25.1	29.0	32.8	45.3
NEXT(dB/100m)	74.3	65.3	60.3	59.3	56.3	54.8	53.4	51.9	47.4	44.3	41.5	39.8	38.3	33.8
ELFEXT(dB/100m)	67.8	55.3	49.7	47.8	43.7	41.8	39.8	37.9	31.9	27.8	27.8	21.8	19.8	13.8
PS NEXT(dB/100m)	72.3	63.3	58.8	57.3	54.3	52.8	51.4	49.9	45.4	42.3	42.3	37.8	36.3	31.8
PS ELFEXT(dB/100m)	64.8	57.7	46.7	44.8	40.7	38.7	36.8	34.9	28.8	24.8	20.9	18.7	16.8	10.8
Propagation Speed(m/s)	0.55c													