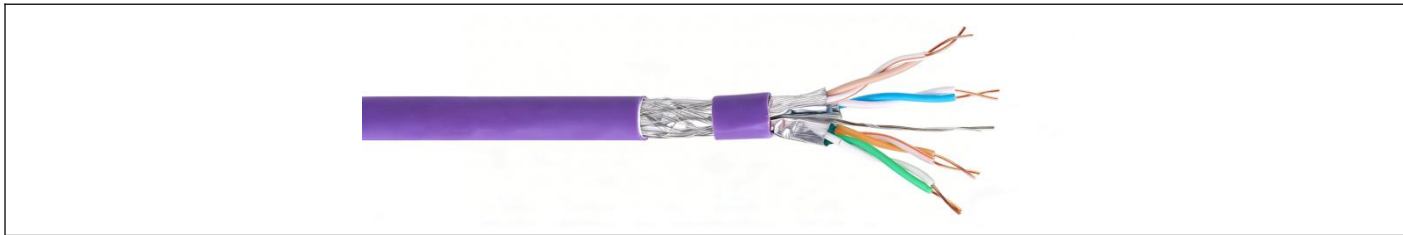


CAT 7 100Ω

PRODUCT IMAGE 产品图片



APPLICATION SCENARIOS 应用场景

- 电磁干扰严重的工业环境（工厂自动化、变电站、电焊车间）、广播电视台、医疗影像系统、保密单位屏蔽布线系统 Industrial environments with severe electromagnetic interference (such as factory automation, substations, welding workshops), broadcasting and television stations, medical imaging systems, and confidential units' shielded wiring systems
- 优化射频特性，包括 600MHz 带宽下全屏蔽结构的近端串扰、回波损耗、衰减及特性阻抗，同时提供独立屏蔽层接地设计以抑制工频及高频干扰 Optimize the RF characteristics, including the near-end crosstalk, return loss, attenuation and characteristic impedance of the fully shielded structure at 600 MHz bandwidth. At the same time, provide an independent shield layer grounding design to suppress low-frequency and high-frequency interference.
- 具有 1~1000MHz 的宽带能力，向下兼容所有低阶以太网标准，支持高清视频基带传输（HDBaseT 4K）、广播级 SDI over CAT 及高功率 PoE++ (90W) 单向/双向通信系统 It has a wideband capability ranging from 1 to 600 MHz, is backward compatible with all low-order Ethernet standards, and supports high-definition video baseband transmission (HDBaseT 4K), broadcast-level SDI over CAT, and high-power PoE++ (90W) one-way/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.	CAT7
Conductor Dimension(mm)	0.57
Core Dimension(mm)	1.1
No. of Pairs	4
Nom. OD(mm)	7.5
Remark	1000MHz

ELECTRICAL CHARACTERISTICS 电气特性

Frequency(MHZ)	1	4	8	10	16	20	25	31.25	62.5	100	150	200	250	300	600	1000
Impedance(Ω)	100±15															
RL(dB)	20	23	24.5	25	25	25	24.3	23.6	21.5	20.1	18.9	18	17.3	17.3	17.3	15.1
Attenuation(dB/100m)	2.0	3.7	5.2	5.8	7.3	8.2	9.1	10.2	14.5	18.5	22.8	26.4	29.7	32.6	47.1	61.9
NEXT(dB/100m)	78	78	78	78	78	78	78	78	75.4	72.5	72.8	70.9	69.4	68.2	64.7	60.4
ELFEXT(dB/100m)	78	78	77.2	75.3	71.2	69.3	67.3	65.4	59.4	55.3	51.8	49.3	47.3	45.8	41.3	35.3
PS NEXT(dB/100m)	75	75	75	75	75	75	75	75	75	72.4	69.8	67.9	66.4	65.2	60.7	57.4
PS ELFEXT(dB/100m)	75	75	74.2	72.3	68.2	66.3	63	62.4	56.4	52.3	47.2	46.3	44.3	42.8	36.7	32.3
Propagation Speed(m/s)	0.50c															