

Product Specifications

Product: 4 PAIRS 26AWG CAT 6 F/UTP PVC STRANDED WIRE

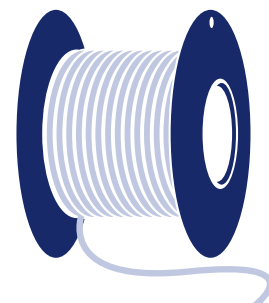
Application

100Base-T4 | 100Base-TX | 100VG-AnyLAN | 1000Base-T | 1000Base-TX | 155Mbps ATM | 622Mbps ATM

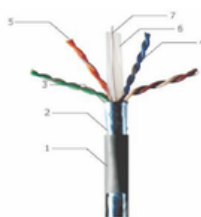
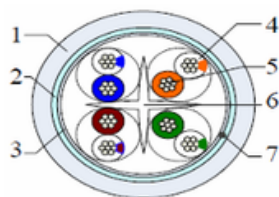
- Rated temperature: 75°C
- Reference standard: IEC 61156-6, ISO/IEC 11801

Product standard certification:

- Flame test: CMP
- Stranded bare copper conductor
- Colour-coded FEP insulation
- PVC jacket



Product figure



1	Outer Jacket
2	AL-Foil
3	Polyester
4	Insulation
5	Conductor
6	Filler
7	Drain wire

Electrical characteristics

Frequency	Input Impedance Upper Limit	Input Impedance Lower Limit	ATT	RL	NEXT	PS NEXT	ELFEXT	PSELFEXT	PD
(MHz)	(Ω)	(Ω)	(dB/100m)	(dB min)	(dB min)	(dB min)	(dB min)	(dB min)	Max(ns/100m)
4	115.2	86.8	5.7	23	65.3	63.3	55.8	52.8	552
8	112.6	88.8	8	24.5	60.8	58.8	49.7	46.7	546.7
10	111.9	89.4	8.9	25	59.3	57.3	47.8	44.8	545.4
16	111.9	89.4	11.3	25	56.2	54.2	43.7	40.7	543
20	111.9	89.4	12.7	25	54.8	52.8	41.8	38.8	542
25	113.2	88.3	14.3	24.2	53.3	51.3	39.8	36.8	541.2
31.25	114.6	87.2	16	23.3	51.9	49.9	37.9	34.9	540.4
62.5	120.2	83.2	23.1	20.7	47.4	45.4	31.9	28.9	538.6
100	125.3	79.8	29.7	19	44.3	42.3	27.8	24.8	537.6
200	135.7	73.7	43.5	16.4	39.8	37.8	21.8	18.9	536.5
250	140	71.4	49.3	15.6	38.3	36.3	19.8	16.8	536.3

Physical characteristics

Structure	Construction	F/UTP
	Number of Pairs	4 Pairs
Conductor	AWG	26AWG
	Conductor material	Stranded Bare copper
	Conductor dimension	7/0.16±0.02 mm
Insulation	Insulation material	FEP
	Insulation dimension	0.86±0.08 mm
	Number colour (	1.White & Blue 3.White & Green
	Pure color)	2.White & Orange 4.White & Brown
Cabling	Twisting lay length	≤ 30 mm
	Cabling lay length	≤ 200 mm
Filler	Filler material	Yes
Binder	Binder material	PTEF tape
Shield	Individual shield & material	N/A
	Primary overall shield & material	Al-Foil
	Secondary overall shield & material	N/A
	Shield coverage	N/A
	Drain wire	26AWG Stranded Tinned Copper



Physical characteristics

Outer jacket	Outer jacket material	PVC
	Outer jacket nominal thickness	0.4mm
	Overall nominal dimension	5.7±0.5mm
	Outer jacket rip cord	N/A
	Outer jacket color	Per Customer Request
Mechanical characteristics	Operating temperature range	-20 °C ~ + 75°C
	Bulk cable weight	39 kg/km
	Max. recommended pulling tension	110 N
	Min. bend radius (install)	8 x O.D.
	Outer jacket tensile strength	≥ 13.8 Mpa
	Outer jacket elongation	≥ 100 %
	Outer jacket aging condition	100 °C x 168 hrs
	After aging, Tensile stren PTEF tape	≥ 75 % of Unaging
	After aging, Elongation	≥ 50 % of Unaging
	Cold bend	No crack (@-20 °C x 4 hrs)
Electrical Characteristics	Nom. mutual capacitance	≤ 5.6 nF/100m (@1kHz)
	Pair to ground capacitance unbalance	≤ 330 pF/100m
	Nominal velocity of propagation	65%
	Max. delay skew	45 ns/100m
	Max. conductor DC resistance	140 O/km (@ 20 °C)
	Max. conductor resistance unbalance	5 % (@ 20 °C)
	Min. insulation resistance	5000 MΩ .km
	Max. operating voltage - UL	300 V

Date	Version	change Description
Jun 17, 2026	V.0	First release
Item No.	ZN500BC223 serial	

