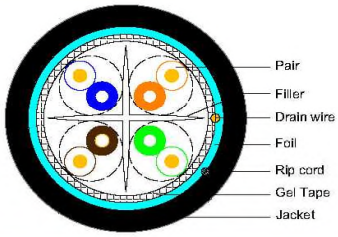
4 Pairs 23AWG Cat.6A F/UTP Gel Tape External LAN Cable

MSEC C6A4PFTPEXT

Cross Section



Cable Description

Conductor

Material	BC
Stranding	Solid
Wire Gage	23AWG
Dia.(+/-0.005mm)	0.570

Insulation

Material	HDPE
Dia.(+/-0.05mm)	1.10
Color Code	WH/BL & BL
	WH/OG & OG
	WH/GN & GN
	WH/BN & BN

Paired

Cabling

Order of the Pair	See the Cross Section
Waterblocking	Gel tape

Outer Sheath :

Material	LDPE
Thickness(+/-0.05mm)	0.72
Dia.(+/-0.50mm)	8.30
Rip cord	200D*3
Drain Wire	TC Φ 0.4mm
Shielding	AL/P

Mechanical Characteristics

Reference Standard：UL 444

Test Material		LDPE
Before	Tensile Strength(Mpa)	≥9.7
Aging	Elongation(%)	≥350
After	Tensile Strength(% of unaged)	≥75
Aging	Elongation(% of unaged)	≥75
Cold Bend(-20±℃×4hrs)		No crack
Operating Temperature Range		-40~+85℃
Min.Bend Radius(Install)		8×D

Revision History

Define by:	Rev：A/2
Prepared by: King	Date：2020-10-24
Approved by: Gavin	Page：1 of 1

Electrical Characteristics

Reference Standard：ANSI/TIA-568.2-D

Test Item(20℃)	Units	Spec
1.Max.Conductor DC Resistance	Ω/km	93.8
2.Max.Unbalance of Pair DC Resistance	%	2.5
3.Dielectric Strength between Pairs	kV/min	DC1.0
4.Min.Insulation Resistance	MΩ·km	5000
5.Max.Pair Mutual Capacitance	nF/100m	5.6
6.Max.Pair Capacitance Unbalance	pF/100m	330
7.Impedance(1 to 250MHz)	Ω	100±15
(250 to 500MHz)	Ω	100±22

Frequency (MHz)	Min.RL (dB)	Max.IL (dB/100m)	Min. NEXT(dB)	Min.PS NEXT(dB)
1	20.0	2.1	74.3	72.3
4	23.0	3.8	65.3	63.3
8	24.5	5.3	60.8	58.8
10	25.0	5.9	59.3	57.3
16	25.0	7.5	56.2	54.2
20	25.0	8.4	54.8	52.8
25	24.3	9.4	53.3	51.3
31.25	23.6	10.5	51.9	49.9
62.5	21.5	15.0	47.4	45.4
100	20.1	19.1	44.3	42.3
200	18.0	27.6	39.8	37.8
250	17.3	31.1	38.3	36.3
300	16.8	34.3	37.1	35.1
400	15.9	40.1	35.3	33.3
500	15.2	45.3	33.8	31.8
750	14.0	62.3	31.8	29.1

Frequency (MHz)	Min.ELFEXT (dB)	Min.PS ELFEXT(dB)	Max.Delay (ns/100m)	Max.Delay skew(ns/100m)
1	67.8	64.8	570	45
4	55.8	52.8	552	45
8	49.7	46.7	547	45
10	47.8	44.8	545	45
16	43.7	40.7	543	45
20	41.8	38.8	542	45
25	39.8	36.8	541	45
31.25	37.9	34.9	540	45
62.5	31.9	28.9	539	45
100	27.8	24.8	538	45
200	21.8	18.8	537	45
250	19.8	16.8	536	45
300	18.3	15.3	536	45
400	15.8	12.8	536	45
500	13.8	10.8	536	45
750	10.5	7.5	535	45

RoHS 3.0 Guideline

Cadmium content (Cd)	< 0.01%(100ppm)
Lead content (Pb)	<0.1% (1000ppm)
Mercury content (Hg)	<0.1% (1000ppm)
Chromium (VI) content	<0.1% (1000ppm)
Polybrominated Biphenyls (PBB)	<0.1% (1000ppm)
Polybrominated Diphenyl Ether (PBDE)	<0.1% (1000ppm)
Diethyl hexyl phthalate (DEHP)	<0.1% (1000ppm)
Butyl phenyl phthalate (BBP)	<0.1% (1000ppm)
Dibutyl phthalate (DBP)	<0.1% (1000ppm)
Diisobutyl phthalate (DIBP)	<0.1% (1000ppm)

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Note: The specifications are subjected to change without prior notice