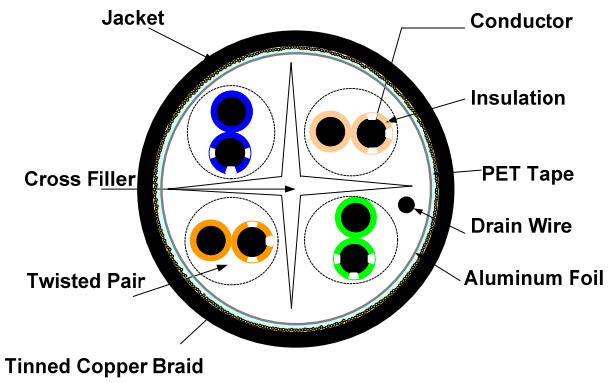
TECHNICAL SPECIFICATION



Applications:

- Horizontal Network and voice in structured Cabling system
- 10/100/1000 Base-T(IEEE 802.3)
- 155 Mbps ATM
- ANSI X3.263: 100 Mbps
- 4/16 Mbps Token Ring(IE802.3)
- 3D imaging
- 100 Mbps TP-PMD

Part Number	Item Number
V631303	Mega Six, Category 6 SFTP

Conductor	
Composition (No./M)	1/0.57 ± 0.02 mm
Material	Annealed Copper Wire
Outside Diameter (mm)	0.57
AWG (Solid)	23

Center Cross Filler	
Material	Solid PE Cross Filer

Wrapping and overall Screen		
PET tape	Thickness (mm)	0.023
AL/ PET tape	Thickness (mm)	0.025

Jacket/Sheath	
Material	PE
Thickness diameter (mm)	0.47
Overall Diameter (mm)	7.6 ± 0.3 mm
Color	Black

Insulation	
Material	Solid Polyethylene
Thickness	-
Nominal Diameter (mm)	1.1 ± 0.02

Drain wire	
Material	Tinned copper
Diameter (mm)	0.495

Braiding	
Material	Tinned copper
Percentage	95%

Color Code	
Pair 1	Blue/White –blue
Pair 2	Orange/White-orange
Pair 3	Green/White-green
Pair 4	Brown/White-brown

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Technical Data - Electrical		
Max. Conductor resistance (Ω/km @ 20°C)	93.80	
Max. DC resistance unbalance (Individual Pair , %)	5	
Max. Mutual capacitance (pF/m)	56	
Max. Delay skew (ns/100m)	45	
Nominal VOP(Velocity of Propagation % speed of light	68	
Input Impedance	Frequency (f)	(Ω)
	1≤ f ≤ 100	100 ± 15
	100 < f ≤ 250	100± 22

Electrical Performance								
Frequency	Attenuation	Pair to Pair			Power sum			Return loss
		NEXT	ELFEXT	ACR	NEXT	ELFEXT	ACR	
(MHz)	Max.	Min. (dB)	Min.(dB)	Min.(dB)	Min.(dB)	Min.(dB)	Min.(dB)	Min. (dB)
1	2.0	74.3	67.8	72.3	72.3	64.8	70.3	20.0
4	3.8	65.3	55.7	61.5	63.3	52.7	59.5	23.0
10	6.0	59.3	47.8	55.3	57.3	44.8	51.3	25.0
16	7.6	56.3	43.7	48.7	54.3	40.7	46.7	25.0
20	8.5	54.8	41.7	46.3	52.8	38.7	44.3	25.0
31.25	10.7	51.9	37.9	41.2	49.9	34.9	39.2	23.6
62.5	15.4	47.4	31.8	32.0	45.1	28.8	30.0	21.5
100	19.8	44.3	27.8	24.5	42.3	24.8	22.5	20.1
125	22.4	42.8	25.9	20.5	40.8	22.9	18.5	19.4
155	25.1	41.5	23.9	16.4	39.5	20.9	14.4	18.8
175	26.9	40.7	22.9	13.7	38.7	20.0	11.7	18.4
200	29.0	39.8	21.7	10.8	37.8	18.7	8.8	18.0
250	32.8	38.3	19.8	5.5	36.3	16.8	3.5	17.3

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Technical Data - Physical		
Temperature rating & voltage	60º , 300V	
Flame retardant test	IEC 332-1	
Insulation shrink back	150mm, 121 ± 1º X 1 hr 9.5 mm	
Cold bend test	- 20 ± 2º X 4hrs, no crack	
Dielectric strength	AC 1.5 KV/min.	
Insulation	**Before Aging**	**After Aging**
Min. tension strength (psi)	1200	75% before aging (100º 48hr)
Min. elongation(%)	100	75% before aging (100º 48hr)
Jacket	**Before Aging**	**After Aging**
Min. tension strength (psi)	2000	85% before aging (100º 240hr)
Min. elongation(%)	100	50% before aging (100º 240hr)
Min. bending radius (mm)	55	
Max. puling tension (N)	110	
Installation temperature	0º to +50º	
Operating temperature	-10º to +60º	

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