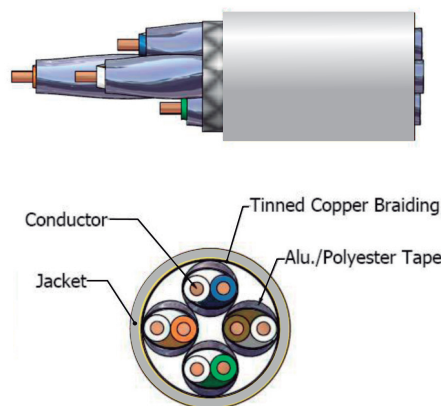




S-FTP Solid Cable CAT. 7, 23 AWG, 4 Pairs, reel of 305 meters

Description:

Extremely high bandwidth of 600 MHz, individual pair shielding to provide EMI protection, highest signal-to-noise ratio to reduce related downtime and network errors. Solid bare copper conductors insulated with foam thermoplastics polyolefin, shielded with aluminum polyester tape. Tinned copper braiding overall the 4 pairs. Overall jacket with PVC compound.

SPECIFICATIONS:

CABLE DESCRIPTION	
1 - CONDUCTOR	
Size	23 AWG
Type	Solid Bare Copper
Diameter (mm)	0,56 ± 0,01
2 - INSULATION	
Type	Foam PE
Diameter (mm)	1,34 ± 0,05
Min. Thickness (mm)	0,365
3 - PAIRS	
Color Code	
Pair 1	Blue/White - blue strip
Pair 2	Orange/White - Orange Strip
Pair 3	Green/White - green strip
Pair 4	Brown/White - brwon stripe
4- SHIELD	
Tinned copper drain wire	0,495
Type (each pair shielded)	Aluminum Polyester tape
Type (Overall shielded)	Tinned Copper 32% braiding
5 - JACKET	
Type	PVC
Overall Diameter (mm)	8,05 ± 0,3

TECHNICAL DATA - PHYSICAL

1. Cold bend Test	-20 ± 2°C X 4hrs no. Crack	
2. Dielectric Strenght	AC 1,7 Kvfor 2S	
3. Insulation	Before Aging	After Aging
Min Tension strenght (psi)	1300	75% before aging (100°C x 48hrs)
Min elongation (%)	300	75% before aging (100°C x 48hrs)
4. Jacket		
Min Tension strenght (psi)	2000	85% before aging (100°C x 240hrs)
Min elongation (%)	100	50% before aging (100°C x 240hrs)
5. Min bending Radius (mm)	65	
6. Max. Pulling tension	25	
7. Installation temperature	-10°C to + 60°C	
8 Operating temperature	-10°C to + 60°C	

TECHNICAL DATA - ELECTRICAL

1. Conductor resistance (Ω/100m @ 20°C)	Max.	9,5	
2. DC resistance unbalance (%)	Max.	4	
3. Pair to ground capacitance unbalance (pF/km)	Max.	1600	
4. Delay skew (ns/100m)	Max.	25	4 ≤ f ≤ 600MHz
5. Insertion loss (dB/100m)	Max.	1,8 *vf + 0,01* 0,2/vf	
6. Pair to Pair NEXT (dB/100m)	Min.	102,4 - 15 * log (f)	
		Values greater than 75dB shall be converted to 75 Db	
7. PowerSum pr-pr NEXT (dB/100m)	Min.	99,4 - 15 * log (f)	
		Values greater than 75dB shall be converted to 75 Db	
8. ELFEXT (dB/100m)	Min.	95,3 - 20* log (f)	
		Values greater than 75dB shall be converted to 75 Db	
9. PowerSum ELFEXT (dB/100m)	Min.	92,3 - 20 * log (f)	
		Values greater than 75dB shall be converted to 75 Db	
10. Return Loss (dB)	Min.	20 + 5 * log (f)	1 ≤ f ≤ 10MHz
		25	10 ≤ f < 20MHz
		25 - 7 * log (f / 20)	20 ≤ f ≤ 250MHz
		17,3	250 < f ≤ 600MHz
11. Propagation Delay (ns/100m)	Max.	534 + 36/vf	
12. Input Impedance (Ω)		100 ± 15%	1 ≤ f ≤ 250MHz
		100 ± 22%	f ≤ 250MHz

IEC 61156-5 ed 2.0 CATEGORY 7 horizontal cable parameters

Freq. (MHz)	Ins. Loss (dB/100m)	RL (dB)	Pair to Pair		Power Sum		Delay Skew	Po. Delay (ns/100)
			NEXT	ELFEXT	NEXT	ELFEXT		
			(dB/100m)		(dB/100m)		(ns/100m)	
	Max.	Min.	Min.	Min.	Min.	Min.	Max.	Max.
1	-	20,0	78,0	-	75,0	-	-	-
4	3,7	23,0	78,0	75,0	75,0	75,0	25,0	552,0
10	5,9	25,0	78,0	75,0	75,0	72,3	25,0	545,4
16	7,4	25,0	78,0	71,2	75,0	68,2	25,0	543,0
20	8,3	25,0	78,0	63,3	75,0	66,3	25,0	542,0
31.25	10,4	24,3	78,0	65,4	75,0	62,4	25,0	540,4
62.5	14,9	23,6	75,5	59,4	72,5	56,4	25,0	538,6
100	24,0	21,5	72,4	51,5	66,5	48,5	25,0	537,6
200	27,5	18,0	67,9	49,3	64,9	46,3	25,0	536,5
250	31,0	17,3	66,4	47,3	63,4	44,3	25,0	536,3
300	37,2	17,3	64,2	44,4	61,2	41,4	25,0	536,1
400	40,0	17,3	63,4	43,3	60,4	40,3	25,0	535,8
500	45,3	17,3	61,9	41,3	58,9	38,3	25,0	535,6
600	50,1	17,3	60,7	39,7	57,7	36,7	25,0	535,5

Features:

Standards:

- International: IEC 61156-5 edit 2.0

Certifications:

