

Assmann Electronic Gmbh

Product Specification

Product	CAT5E FTP STR 26AWG×4P		NO.	4010120	Page	1 / 2
Edition	A6-2	Established Date	10 / 05 / 99	Revised Date	8/14/03	
Approval		Checked		Finish		

Configuration & Physical Characters:

1 Conductor	Material	Bare Copper	
	Size	26 AWG	
	Construction	7/0.16 ± 0.005 mm	
2 Insulation	Material	HDPE	
	Thickness	MIN at any point: 0.15mm MAX AVG: 0.25 mm	
	Diameter	0.92 ± 0.06 mm	
	Colors	Blue/White-Blue	
		Orange/White-Orange	
		Green/White-Green	
		Brown/White-Brown	
Elongation	MIN 300 %		
Tensile strength	MIN 1.682 Kg/mm ²		
3 Shield	Al-Mylar Type	Insulation on outside surface (The color of the Mylar is BLUE)	
	Mylar Type		
4 Drain Wire	Material	Tinned Copper	
	Size	26 AWG	
	Construction	7/0.16 ± 0.005 mm	
5 Sheath	Material	<input checked="" type="checkbox"/> PVC	<input type="checkbox"/> LSZH
	Thickness	MIN AVG: 0.6 mm	MIN AVG: 0.6 mm
	Diameter	5.6 ± 0.3 mm	5.6 ± 0.3 mm
	Color	RAL7035	RAL7035
	Elongation	MIN 100%	MIN 125%
	Tensile strength	MIN 1.407 Kg/mm ²	MIN 0.917 Kg/mm ²
Aging at 100 for 168Hrs	Min elongation retention:50%	Min elongation retention:75%	
	Min tensile strength retention:75%	Min tensile strength retention:70%	

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6. Marking	According to Production Specifications
7. Flame Test	respect the IEC 332-1 standard

Electric Characters :

1. Spark Test	2000 ± 250 V ac			
2. Dielectric Strength	2500 V dc / 3 seconds			
3. Insulation Resistance Test	MIN 150 M /Km			
4. Conductor Resistance	MAX 14.07 /100m at 20			
5. Resistance Unbalance	MAX 3%			
6. Capacitance Unbalance	MAX 800 pF/500m			
7. Mutual Capacitance	MAX 5600 pF/100m			
8. NVP	66.6%			
9. Impedance	722kHz	102 ± 15%		
	1~250MHz	100 ± 15%		
10 Attenuation & Near end cross-talk		Attenuation (dB/100 meters at 20),max	Next (dB),min	Power Sum (dB),min
	772kHz	--	67*	64*
	1MHz	2.4*	65.3*	62.3*
	4MHz	4.9*	56.3*	53.3*
	8MHz	6.9*	51.8*	48.8*
	10MHz	7.8*	50.3*	47.3*
	16MHz	9.9*	47.2*	44.2*
	20MHz	11.1*	45.8*	42.8*
	25MHz	12.5*	44.3*	41.3*
	31.25MHz	14.1*	42.9*	39.9*
	62.5MHz	20.4*	38.4*	35.4*
	100MHz	26.4*	35.3*	32.3*
	125MHz	29.8*	33.8*	30.8*
200MHz	32.4*	30.8*	27.8*	

The asterisked(*) value are for information only. The minimum Next coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula :

$$\text{NEXT}(f) = \text{NEXT}(100) - 15 \log_{10}(f \text{ MHz}/100)$$