

Product Name		F/UTP CAT6 Cable		Structure Chart 																																																																																																																																			
Product Model		7 STAR CAT6 FTP 305 MTR CABLE CCA BLACK OUTDOOR																																																																																																																																					
Reference Standard		IEEE 802.3; ANSI/TIA-568.2-D-2018; ISO/IEC 11801-2017																																																																																																																																					
Application		Applied to structured cable; for digital, voice, data and video signals transmitting, suitable for IEEE 802.3 1000BASE-T																																																																																																																																					
Conductor	Material		Copper Clad Aluminum		Transmission Performance <table><tr><td>Frequency</td><td>RL</td><td>ATT</td><td>NEXT</td><td>PS NEXT</td></tr><tr><td>(MHz)</td><td>≥dB</td><td>≤dB</td><td>≥dB</td><td>≥dB</td></tr><tr><td>1</td><td>19.1</td><td>1.9</td><td>65.0</td><td>62.0</td></tr><tr><td>4</td><td>21.0</td><td>3.5</td><td>64.1</td><td>61.8</td></tr><tr><td>8</td><td>21.0</td><td>5.0</td><td>59.4</td><td>57.0</td></tr><tr><td>10</td><td>21.0</td><td>5.5</td><td>57.8</td><td>55.5</td></tr><tr><td>16</td><td>20.0</td><td>7.0</td><td>54.6</td><td>52.2</td></tr><tr><td>20</td><td>19.5</td><td>7.9</td><td>53.1</td><td>50.7</td></tr><tr><td>25</td><td>19.0</td><td>8.9</td><td>51.5</td><td>49.1</td></tr><tr><td>31.25</td><td>18.5</td><td>10.0</td><td>50.0</td><td>47.5</td></tr><tr><td>62.5</td><td>16.0</td><td>14.4</td><td>45.1</td><td>42.7</td></tr><tr><td>100</td><td>14.0</td><td>18.6</td><td>41.8</td><td>39.3</td></tr><tr><td>200</td><td>11.0</td><td>27.4</td><td>36.9</td><td>34.3</td></tr><tr><td>250</td><td>10.0</td><td>31.1</td><td>35.3</td><td>32.7</td></tr></table> <table><tr><td>Frequency</td><td>DELAY</td><td>ACRF</td><td>PS ACRF</td></tr><tr><td>(MHz)</td><td>≤ns</td><td>≥dB</td><td>≥dB</td></tr><tr><td>1</td><td>521</td><td>64.2</td><td>61.2</td></tr><tr><td>4</td><td>504</td><td>52.1</td><td>49.1</td></tr><tr><td>8</td><td>500</td><td>46.1</td><td>43.1</td></tr><tr><td>10</td><td>498</td><td>44.2</td><td>41.2</td></tr><tr><td>16</td><td>496</td><td>40.1</td><td>37.1</td></tr><tr><td>20</td><td>495</td><td>38.2</td><td>35.2</td></tr><tr><td>25</td><td>495</td><td>36.2</td><td>33.2</td></tr><tr><td>31.25</td><td>494</td><td>34.3</td><td>31.3</td></tr><tr><td>62.5</td><td>492</td><td>28.3</td><td>25.3</td></tr><tr><td>100</td><td>491</td><td>24.2</td><td>21.2</td></tr><tr><td>200</td><td>490</td><td>18.2</td><td>15.2</td></tr><tr><td>250</td><td>490</td><td>16.2</td><td>13.2</td></tr></table>					Frequency	RL	ATT	NEXT	PS NEXT	(MHz)	≥dB	≤dB	≥dB	≥dB	1	19.1	1.9	65.0	62.0	4	21.0	3.5	64.1	61.8	8	21.0	5.0	59.4	57.0	10	21.0	5.5	57.8	55.5	16	20.0	7.0	54.6	52.2	20	19.5	7.9	53.1	50.7	25	19.0	8.9	51.5	49.1	31.25	18.5	10.0	50.0	47.5	62.5	16.0	14.4	45.1	42.7	100	14.0	18.6	41.8	39.3	200	11.0	27.4	36.9	34.3	250	10.0	31.1	35.3	32.7	Frequency	DELAY	ACRF	PS ACRF	(MHz)	≤ns	≥dB	≥dB	1	521	64.2	61.2	4	504	52.1	49.1	8	500	46.1	43.1	10	498	44.2	41.2	16	496	40.1	37.1	20	495	38.2	35.2	25	495	36.2	33.2	31.25	494	34.3	31.3	62.5	492	28.3	25.3	100	491	24.2	21.2	200	490	18.2	15.2	250	490	16.2	13.2
	Frequency	RL	ATT	NEXT						PS NEXT																																																																																																																													
(MHz)	≥dB	≤dB	≥dB	≥dB																																																																																																																																			
1	19.1	1.9	65.0	62.0																																																																																																																																			
4	21.0	3.5	64.1	61.8																																																																																																																																			
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Diameter (mm)		0.570±0.01																																																																																																																																					
Insulation	Material		HDPE + Color Line																																																																																																																																				
	Color		White/Blue,White/Orange,White/Green ,White/Brown																																																																																																																																				
	Diameter (mm)		1.02 ± 0.05																																																																																																																																				
Separator	Material		PE																																																																																																																																				
PET	YES																																																																																																																																						
Drain wire	1/0.40mm CCA																																																																																																																																						
Shield	Copper Color Aluminum Foil																																																																																																																																						
Rip Cord	YES																																																																																																																																						
Inner Jacket	Material		PVC																																																																																																																																				
	External O.D.(mm)		5.7±0.3																																																																																																																																				
	Thickness (mm)		0.45±0.05																																																																																																																																				
	Color		Grey																																																																																																																																				
Outer Jacket	Material		PE																																																																																																																																				
	External O.D.(mm)		6.8±0.3																																																																																																																																				
	Thickness (mm)		0.45±0.05																																																																																																																																				
	Color		Black																																																																																																																																				
Printing	TBD																																																																																																																																						
Packing	Roll																																																																																																																																						
Jacket Physical properties	Before Aging	Tensile Strength(MPa)		≥10 (PVC) ,10(PE)																																																																																																																																			
		Elongation (%)		≥125(PVC), 250(PE)																																																																																																																																			
	Aged Condition		100℃ , 168h																																																																																																																																				
	After Aging	Tensile Strength(MPa)		≥50%																																																																																																																																			
		Elongation (%)		≥50%																																																																																																																																			
Electrical Characteristics (20℃)	DC Resistance		≤25Ω/100m																																																																																																																																				
	Unbalance Capacitance		\																																																																																																																																				
	Delay Skew		≤50ns/100m																																																																																																																																				
	Impedance(Ω):		1-100MHz	100±15Ω	PASS FLUKE 1000BASE-T Test <table><tr><td colspan="3">Environment Temperature</td><td colspan="2">CPR</td></tr><tr><td>Store</td><td>0~40℃</td><td>Work</td><td>-20~60℃</td><td>Class:Fca</td></tr></table>		Environment Temperature			CPR		Store	0~40℃	Work	-20~60℃	Class:Fca																																																																																																																							
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Store	0~40℃	Work	-20~60℃	Class:Fca																																																																																																																																			
		100-250MHz	100±18Ω																																																																																																																																				
This cable fully conforms to EU Directive 2011/65/EU (RoHS-2)																																																																																																																																							
Version:	Date	Record			Author	Approved By																																																																																																																																	
A1	8-28-2026	Original			Qiu Meihua	Jin Jianbing																																																																																																																																	