



## ACT Product **XS6003**

**Type** 60P51-008, Category 6 UTP 4 Pair cable, without cross member  
**Standards** ISO/IEC11801 & TIA- 568.2-D & UL Subject 444 &YD/T1019  
**Applications** Generic cabling systems. Including 10Base - T, 100Base - T, 1000Base – T, ATM & Token Ring  
 This range of unshielded cables is designed to support Cat 6 Link and Channel performance.  
 With internationally defined Physical and Electrical performance up to 250MHz

### Construction

<b>Conductor</b>	24AWG Soft Plain Copper (0.51±0.01mm)
<b>Insulation</b>	Polyethylene with colour marking on white cores to ease identification
<b>Colour Code</b>	White-Blue/Blue, White-Orange/Orange, White-Green/Green, White-Brown/Brown
<b>Shield</b>	None
<b>Outer Jacket</b>	Color RAL4005, Nominal Diameter 5.1±0.5 mm
<b>Additional Components</b>	Cable is supplied with ripcord
<b>Printing</b>	Sheath printed Black, CE 20 ACT CAT6 U/UTP CU 4X2XAWG24 250MHZ DoP 1176113/ XS6003-CPR Dca, s1, d2, a1 EN50575:2014+A1:2016 ISO/IEC 11801 ANSI/TIA-568.2-D CLASS E NB 2652 Installation data copper communication cable MM/DD/YY *****M

### Mechanical Characteristics

<b>Maximum Pulling Force</b>	100N
<b>Minimum Bending Radius</b>	8*OD
<b>Nominal Weight</b>	45KG/KM
<b>Operating Temperature</b>	-15Deg C ~ +60 Deg C
<b>Installation Temperature</b>	+0 Deg C ~ +50 Deg C
<b>Fire Performance</b>	LSZH, CPR Dca
<b>Product lengths</b>	305m per box
<b>PoE</b>	From type1 to type3

### Electrical Performance (Transmission Test by permanent link 80m)

DC conductor Resistance at 20°C (Ω/100m)	≤9.38												
DC resistance unbalance within a pair (%)	≤2												
Insulation Resistance 20oC (M Ω *km) 5000	≥5000												
Dielectric Strength(KV/2S)	2.5DC or 1.5AC, No breakdown												
Mutual capacitance(nF/100m)at 1kHz	≤5.6												
Capacitance unbalance pair to ground(pF/100m)at 1kHz	≤330												
Transmission Frequency (MHz)	1	4	8	10	16	20	25	31.25	62.5	100	200	250	
<b>NEXT</b> db/100m	65.0	64.1	59.4	57.8	54.6	53.1	51.5	50.0	45.1	41.8	36.9	35.3	
<b>Attenuation</b> db/100m	1.9	3.5	5.0	5.5	7.0	7.9	8.9	10.0	14.4	18.6	27.4	31.1	
<b>Return Loss</b> db/100m	19.1	21.0	21.0	21.0	20.0	19.5	19	18.5	16.0	14.0	11.0	10.0	
<b>PSNEXT</b> db/100m	62.0	61.8	57.0	55.5	52.2	50.7	49.1	47.5	42.7	39.3	34.3	32.7	
<b>ACR-F</b> db/100m	64.2	52.1	46.1	44.2	40.1	38.2	36.2	34.3	28.3	24.2	18.2	16.2	
<b>PS ACR-F</b> db/100m	61.2	49.1	43.1	41.2	37.1	35.2	33.2	31.3	25.3	21.2	15.2	13.2	
<b>Delay</b> ns/100m	521	504	500	498	496	495	495	494	492	491	490	490	
<b>Skew</b> ns/100m	≤45												