

ELECTRA CABLES



(Aust.) Pty. Limited

A.C.N. 056 024 385
A.B.N. 38 056 024 385

Head Office:

1/13 Cooper St. Smithfield NSW2164
P.O. Box 2084, Smithfield NSW 2164
Tel: (02) 8786 5200
Fax: (02) 8786 5288

Victoria Branch:

460-464 Hammond Rd.
Dandenong South, VIC 3175
Tel: (03) 9706 6819
Fax: (03) 9768 3590

Queensland Branch:

39 Westgate St.
Wacol, QLD 4076
Tel: (07) 3271 6600
Fax: (07) 3271 6600

REF : U/UTP 4 pairs Jelly cable - category 6 - 250MHz – PE Sheath

Date	Author	Review	Approve	Version	Revision Declaration																																																																																																																										
2013-05-02	Caixiaoping	Nidonghua	Wangfuzhu	A0																																																																																																																											
Content of the Data Sheet																																																																																																																															
Sheath Printing	It will be printed as customer's requirement with batch produce.																																																																																																																														
Category	U/UTP-ZST CAT6-4P-PE																																																																																																																														
Test Standard	ISO/IEC11801、ANSI/TIA-568-C.2																																																																																																																														
Conductor	Material	SOLID-Bare Copper																																																																																																																													
	Nom. O.D. (mm)	0565	Up	+0.005																																																																																																																											
			Down	-0.005																																																																																																																											
Insulation	Material	HDPE																																																																																																																													
	Diameter	1.10±0.03mm																																																																																																																													
Color	A.Blue, White-Blue	B.Orange,White-Orange																																																																																																																													
	C.Green,White-Green	D.Brown, White-Brown																																																																																																																													
5. Sheath	Thickness	0.60±0.05 mm																																																																																																																													
	External O.D.	7.1±0.5 mm																																																																																																																													
	Surface	Clean,Frap,Satiation																																																																																																																													
	Material	LDPE																																																																																																																													
	Color	Black																																																																																																																													
Surface Printing	Letter height	3.0±0.3mm																																																																																																																													
	Color	White																																																																																																																													
	Print error & Space	≤±0.5%, 1m																																																																																																																													
Packing	Carton, pallet																																																																																																																														
Carton dimension	—																																																																																																																														
Packing length	500±2.5m																																																																																																																														
Rip-cord	Yes	Drain wire	No																																																																																																																												
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥10.0																																																																																																																													
	Elongation(%)	≥350																																																																																																																													
	Aging Period (□×hrs)	100□×24h×10d																																																																																																																													
	After Aging Elongation(%)	≥300																																																																																																																													
	Cold bend(-20±2□×4h)	8×Cable O.D., No visible cracks																																																																																																																													
Electrical Characteristics (20□)	1.0-250.0MHz, Characteristic impedance (Ω)	100±15																																																																																																																													
	1.0-250.0MHz, Delay Shew 20□(ns/100m)	≤45																																																																																																																													
	DC Resistance 20□(Ω/100m) max	9.38																																																																																																																													
	DC Conductor Resistance Unbalance (%)max	5.0																																																																																																																													
					<table border="1"> <thead> <tr> <th colspan="5">FLUKE Technical Performance</th> </tr> <tr> <th>Frequency (MHz)</th> <th>RL ≥dB</th> <th>ATT ≤dB</th> <th>NEXT ≥dB</th> <th>DELAY ≤ns</th> </tr> </thead> <tbody> <tr><td>1</td><td>19.1</td><td>3.0</td><td>65.0</td><td></td></tr> <tr><td>4.0</td><td>21.0</td><td>3.5</td><td>64.1</td><td></td></tr> <tr><td>8.0</td><td>21.0</td><td>5.0</td><td>59.4</td><td></td></tr> <tr><td>10.0</td><td>21.0</td><td>5.5</td><td>57.8</td><td></td></tr> <tr><td>16.0</td><td>20.0</td><td>7.0</td><td>54.6</td><td>498</td></tr> <tr><td>20.0</td><td>19.5</td><td>7.9</td><td>53.1</td><td></td></tr> <tr><td>25.0</td><td>19.0</td><td>8.9</td><td>51.5</td><td></td></tr> <tr><td>31.25</td><td>18.5</td><td>10.0</td><td>50.0</td><td></td></tr> <tr><td>62.5</td><td>16.0</td><td>14.4</td><td>45.1</td><td></td></tr> <tr><td>100</td><td>14.0</td><td>18.6</td><td>41.8</td><td></td></tr> <tr><td>200</td><td>11.0</td><td>27.4</td><td>36.9</td><td></td></tr> <tr><td>250</td><td>10.0</td><td>31.1</td><td>35.3</td><td></td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>PSNEXT ≥dB</th> <th>ELFEXT ≥dB</th> <th>PSELFEXT ≥dB</th> </tr> </thead> <tbody> <tr><td>1</td><td>62.0</td><td>64.2</td><td>61.2</td></tr> <tr><td>4</td><td>61.8</td><td>52.1</td><td>49.1</td></tr> <tr><td>8</td><td>57.0</td><td>46.1</td><td>43.1</td></tr> <tr><td>10</td><td>55.5</td><td>44.2</td><td>41.2</td></tr> <tr><td>16</td><td>52.2</td><td>40.1</td><td>37.1</td></tr> <tr><td>20</td><td>50.7</td><td>38.2</td><td>35.2</td></tr> <tr><td>25</td><td>49.1</td><td>36.2</td><td>33.2</td></tr> <tr><td>31.25</td><td>47.5</td><td>34.3</td><td>31.3</td></tr> <tr><td>62.5</td><td>42.7</td><td>28.3</td><td>25.3</td></tr> <tr><td>100</td><td>39.3</td><td>24.2</td><td>21.2</td></tr> <tr><td>200</td><td>34.3</td><td>18.2</td><td>15.2</td></tr> <tr><td>250</td><td>32.7</td><td>16.2</td><td>13.2</td></tr> </tbody> </table>	FLUKE Technical Performance					Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	1	19.1	3.0	65.0		4.0	21.0	3.5	64.1		8.0	21.0	5.0	59.4		10.0	21.0	5.5	57.8		16.0	20.0	7.0	54.6	498	20.0	19.5	7.9	53.1		25.0	19.0	8.9	51.5		31.25	18.5	10.0	50.0		62.5	16.0	14.4	45.1		100	14.0	18.6	41.8		200	11.0	27.4	36.9		250	10.0	31.1	35.3		Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB	1	62.0	64.2	61.2	4	61.8	52.1	49.1	8	57.0	46.1	43.1	10	55.5	44.2	41.2	16	52.2	40.1	37.1	20	50.7	38.2	35.2	25	49.1	36.2	33.2	31.25	47.5	34.3	31.3	62.5	42.7	28.3	25.3	100	39.3	24.2	21.2	200	34.3	18.2	15.2	250	32.7	16.2	13.2
FLUKE Technical Performance																																																																																																																															
Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns																																																																																																																											
1	19.1	3.0	65.0																																																																																																																												
4.0	21.0	3.5	64.1																																																																																																																												
8.0	21.0	5.0	59.4																																																																																																																												
10.0	21.0	5.5	57.8																																																																																																																												
16.0	20.0	7.0	54.6	498																																																																																																																											
20.0	19.5	7.9	53.1																																																																																																																												
25.0	19.0	8.9	51.5																																																																																																																												
31.25	18.5	10.0	50.0																																																																																																																												
62.5	16.0	14.4	45.1																																																																																																																												
100	14.0	18.6	41.8																																																																																																																												
200	11.0	27.4	36.9																																																																																																																												
250	10.0	31.1	35.3																																																																																																																												
Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB																																																																																																																												
1	62.0	64.2	61.2																																																																																																																												
4	61.8	52.1	49.1																																																																																																																												
8	57.0	46.1	43.1																																																																																																																												
10	55.5	44.2	41.2																																																																																																																												
16	52.2	40.1	37.1																																																																																																																												
20	50.7	38.2	35.2																																																																																																																												
25	49.1	36.2	33.2																																																																																																																												
31.25	47.5	34.3	31.3																																																																																																																												
62.5	42.7	28.3	25.3																																																																																																																												
100	39.3	24.2	21.2																																																																																																																												
200	34.3	18.2	15.2																																																																																																																												
250	32.7	16.2	13.2																																																																																																																												