## вст65S

HighFlex ${ }^{\text {TM }}$ CAT6A S/FTP Networking cable

The BCT65S is a CAT6A networking cable featuring a HighFlex ${ }^{\text {TM }}$ outer jacket which is specifically designed for professional use in highly demanding applications.

The conductor section of the BCT65S consists of 4 pairs with solid 24 AWG conductors which are individually shielded by an aluminum foil while the entire section is surrounded by an overall braiding. Due to the double shielding, better performance in terms of crosstalk and system noise is achieved resulting in a higher bandwidth and improved immunity against noise and interference caused by external devices.

The combination with hard and solid inner jacket materials and soft outer jacket materials provides great flexibility with a solid touch. Even after numerous times of winding and unwinding.

Supports 10Base-T, 100Base-TX, 1000Base-T and 10GBase-T gigabit.
Supports Dante, Cobranet, Ethersound, HdbaseT and other AV network protocols


| Physical |  |
| :--- | :--- |
| Characteristics |  |
| Inner conductor | CAT6A S/FTP Networking cable |
| Inner conductor section | BC $7 \times 0.20 \mathrm{~mm}$ (OFC) |
| Number of conductors | $8(4$ pairs) |
| Insulation | Foamed PE $\varnothing 1.32 \mathrm{~mm}$ |
| Insulation colour | Blue \& Blue / White <br> Orange \& Orange / White <br> Green \& Green / White <br> Brown \& Brown / White |
| Twisting lay length | $\leq 30 \mathrm{~mm}$ |
| Shielding 1 | Individual Al-foil |
|  | $100 \%$ coverage - 25\% Overlap |
| Shielding 2 | Braiding TC 10 x 12 x 0.08 mm |
|  | $>80 \%$ coverage |
| Inner jacket | Hard PVC |
| Inner jacket dimensions | $\varnothing 7.2$ mm |
| Separator | Non woven foil |
| Outer jacket | Soft PVC |
| Outer jacket colour | Black |
| Outer jacket dimensions | $\varnothing 8.7$ mm |
| American Wire Gauge | 24 AWG |


| Standards \& regulations |  |  |
| :---: | :---: | :---: |
| RoHS2 compliant | According EU Directive 2011/65/EU |  |
| Reach compliant | According EC 1907/2006 |  |
| Flammability test | According IEC 60332-1 |  |
| Indoor / outdoor | Indoor |  |
| Cabling standard | ISO/IEC11801; IEC61156; UL444; ANSI/TIA-568-C. 2 |  |
| Mechanical Characteristics |  |  |
| Temperature range | fixed installation | $-20^{\circ} \mathrm{C}$ till $+75^{\circ} \mathrm{C}$ |
|  | flexible installation | $-15^{\circ} \mathrm{C}$ till $+60^{\circ} \mathrm{C}$ |
| Bending radius | fixed installation | $10 \times$ cable $\varnothing$ OD |
|  | flexible installation | $12 \times$ cable Ø OD |


| Ordering \& packaging |  |  |
| :--- | :--- | :--- |
| BCT65S/1 | IEC 60332-1, Black | 100 m wooden reel |
| BCT65S/3 | IEC 60332-1, Black | 300 m wooden reel |


| Electrical Characteristics |  |
| :--- | :--- | :--- |
| Dielectricum $\Sigma r$ | Foamed PE |
| Max. conductor DC resistance | $95(\Omega / \mathrm{Km})$ |
| Max. conductor DC resistance unbal. | $2 \%$ |
| Nom. mutual capacitance | $\square 5.6(\mathrm{nF} / 100 \mathrm{~m})$ |
| Pair to ground capacitance unbalance | $\square 160(\mathrm{pF} / 100 \mathrm{~m})$ |
| Nom. Velocity of propagation | $74 \%$ |
| Max. Delay / Skew | $25(\mathrm{~ns} / 100 \mathrm{~m})$ |
| Dielectric strength | $1.5(\mathrm{KV} / 1 \mathrm{~min} . \mathrm{DC})$ |
| Nom. shield DC resistance | $(\Omega / \mathrm{Km})$ |
| Characteristic impedance | $100 \Omega+/-15 \Omega$ |
| Voltage rating | 72 V |


| Recommended accessories \& connections |  |  |
| :--- | :--- | :--- |
| Ethercon male | Neutrik | NE8MX6 series |
| Ethercon chassis | Neutrik | NE8FDX series |

Procab reserves the right to change specifications without notice, this is part of our policy to continually improve our products.

## Additionalsmecifications

| Frequency | Characteristic Impedance Upper limit | Characteristic Impedance Lower limit | ATT | RL | NEXT | $\begin{aligned} & \text { PS } \\ & \text { NEXT } \end{aligned}$ | ELFEXT <br> (ACR-F) | PS ELFEXT (PS ACR-F) | PD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (MHz) | Zu (Q) | ZI (Q) | (dB/100m) | (dB Min) | (dB Min) | (dB Min) | (dB Min) | (dB Min) | (ns/100m Max) |
| 4 | 115.2 | 86.8 | 4.6 | 23.0 | 66.3 | 63.3 | 56.0 | 53.0 | 552.0 |
| 8 | 112.6 | 88.8 | 6.4 | 24.5 | 61.8 | 58.8 | 49.9 | 46.9 | 546.7 |
| 10 | 111.9 | 89.4 | 7.1 | 25.0 | 60.3 | 57.3 | 48.0 | 45.0 | 545.4 |
| 16 | 111.9 | 89.4 | 9.0 | 25.0 | 57.2 | 54.2 | 43.9 | 40.9 | 543.0 |
| 20 | 111.9 | 89.4 | 10.1 | 25.0 | 55.8 | 52.8 | 42.0 | 39.0 | 542.0 |
| 25 | 113.2 | 88.3 | 11.3 | 24.2 | 54.3 | 51.3 | 40.0 | 37.0 | 541.2 |
| 31.25 | 114.6 | 87.2 | 12.6 | 23.3 | 52.9 | 49.9 | 38.1 | 35.1 | 540.4 |
| 62.5 | 120.2 | 83.2 | 18.0 | 20.7 | 48.4 | 45.4 | 32.1 | 29.1 | 538.6 |
| 100 | 125.3 | 79.8 | 23.0 | 19.0 | 45.3 | 42.3 | 28.0 | 25.0 | 537.6 |
| 200 | 135.7 | 73.7 | 33.1 | 16.4 | 40.8 | 37.8 | 22.0 | 19.0 | 536.5 |
| 250 | 140.0 | 71.4 | 37.3 | 15.6 | 39.3 | 36.3 | 20.0 | 17.0 | 536.3 |
| 300 | 139.8 | 71.5 | 41.1 | 15.6 | 38.1 | 35.1 | 18.5 | 15.5 | 536.1 |
| 400 | 139.8 | 71.5 | 48.1 | 15.6 | 36.3 | 33.3 | 16.0 | 13.0 | 535.8 |
| 500 | 139.8 | 71.5 | 54.3 | 15.6 | 34.8 | 31.8 | 14.0 | 11.0 | 535.6 |

