



## Classic UP SPOFC unbalanced patch cable

Van Damme Classic unbalanced cable is a low overall diameter low capacitance cable for unbalanced audio use - particularly with connectors that cannot accommodate the 5.80mm overall diameter of Van Damme Instrument cable. These connectors may include some phonos, mono jacks and mono mini jacks. This cable is also ideal for high density patching applications. The same attention

has been paid to the capacitance and overall screening properties of the cable as with the Classic Instrument range.

### Materials

This cable now uses a mixture of Ultra Pure Silver Plated Oxygen Free Copper (UP SPOFC) and Ultra Pure Oxygen Free Copper (UPOFC) for its conductors. As with the ultra pure oxygen free copper used in other Van Damme Cables 'solderability' and conductivity are much improved. The additional advantage of UPSPOFC is that silver is approximately 5% less resistive than copper. High frequencies, which gravitate to the outside of the conductor due to the skin effect, are conducted slightly more efficiently than the lower frequencies which tend to saturate the UPOFC conductor. In addition silver is less susceptible to corrosion than copper and so the plating offers a protective barrier between the conductor and the insulation or free air.

The insulation used is foamed polyethylene (PEF). Polyethylene is a good insulation material for this type of signal due to its low dielectric constant and relative flexibility. Foaming, the blowing of air pockets into the polyethylene material, reduces the dielectric constant even further - to around 1.7 to 1.8. The use of this insulator ensures that capacitance figures are kept as low as possible and are also stable throughout the cable. In musical terms the low capacitance of the cable means that the high frequencies within the signal are transmitted efficiently and cleanly and do not bleed to the screen of the cable causing dull and lifeless signal transmission.

The PEF insulated centre conductor is then oversheathed with a conductive thermoplastic tube and tightly lapped oxygen free copper screen to provide excellent screening and also negligible handling noise. The low overall diameter outer jacket is a soft flexible anti abrasion PVC/neoprene composite.

Please note when terminating this cable type that the black conductive thermoplastic layer beneath the lapped copper screen must be stripped back away from the prepared centre conductor. If the centre conductor touches this screen then a dead short will occur and no signal will be transferred.

### Applications

- High density unbalanced audio patching
- Use with overall diameter limited connectors such as mono mini jacks
- Unbalanced analogue audio rack wiring

Order code Description

268-005-000Black

268-019-060Blue

268-032-020Red