

# Stacker De-Stacker

## Stacker De-stacker<sup>plus</sup>



global **invacom**  
completing the picture



- 2 LNB inputs into one cable
- Both LNB inputs independently selectable
- 'Standard' and 'Long Cable' versions available
- Glitch free operation

### Product description

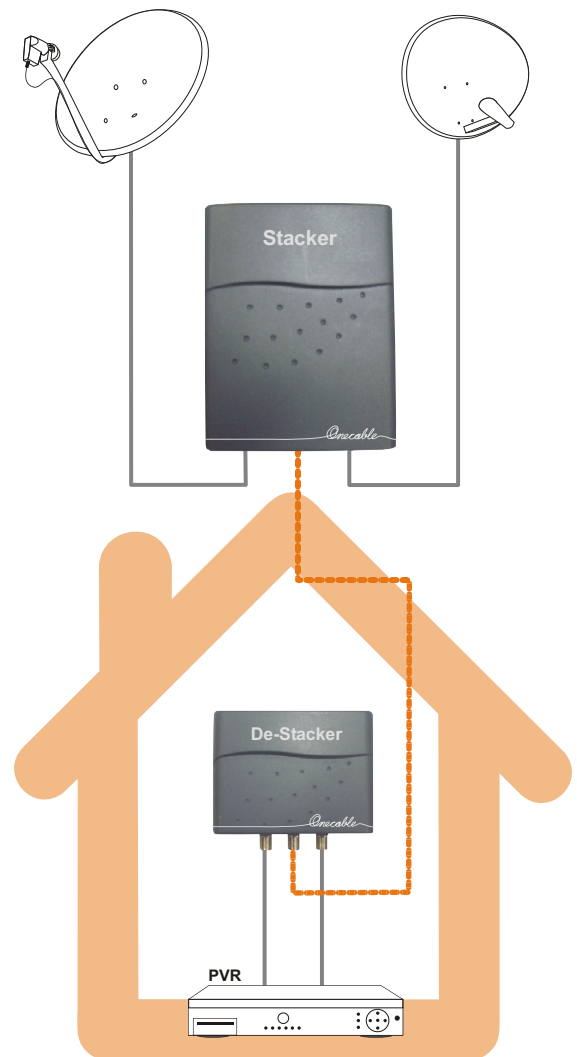
The Global Invacom Stacker De-Stacker is designed to allow 2 LNB feeds to connect to 2 tuners, or Set-top boxes, via a single coaxial feed.

The Stacker De-Stacker is suitable for both 'Direct to Home' (DTH) and 'Multi-Dwelling Unit' (MDU) applications.

The '**Standard**' Stacker De-Stacker is designed for use with cable runs of up to a maximum of 30 metres (using CT100 equivalent coaxial cable).

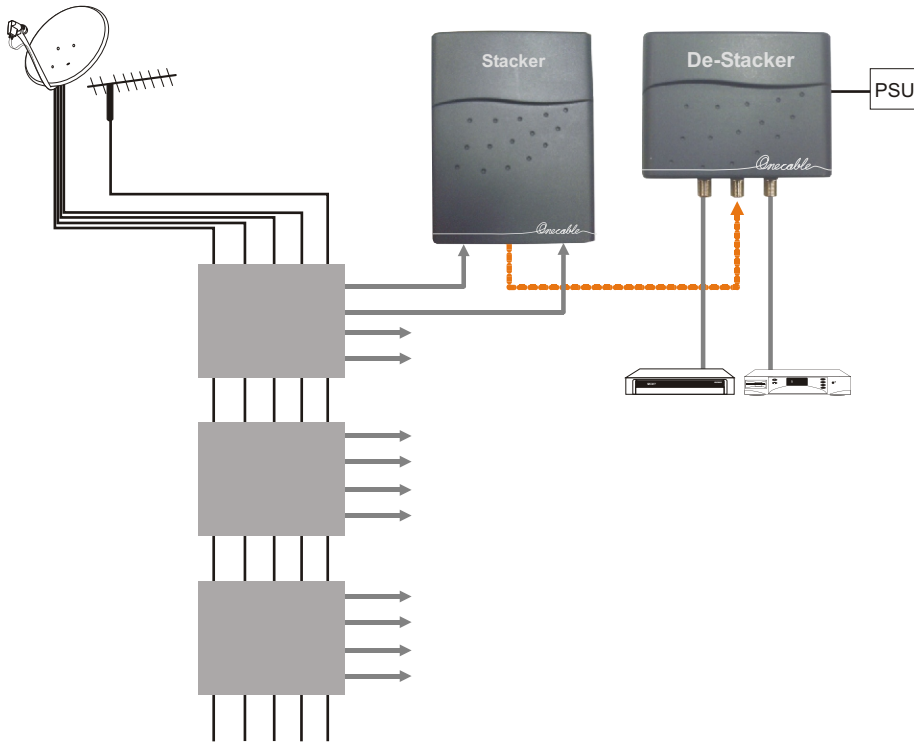
The Stacker De-Stacker '**plus**', is designed for longer cable runs of up to a maximum of 60 metres.

Typical Install (DTH)



\*Typical MDU Installation diagram overleaf.

# Stacker De-Stacker *plus*



Typical Install (MDU)

## Cable Loss Calculation:

Loss per metre at frequency "X" = loss per metre of a known frequency x the square root of (frequency "X" divided by known frequency)

### Examples:

**CT100** type cable has a typical loss of .21dB per metre at 1000 MHz. Therefore, at 3850Mhz the loss would be **.41 dB** per metre.

$$.21 \times \frac{1.96}{\sqrt{3850/1000}} = .41 \text{ dB}$$

**CT125** type cable has a typical loss of .17dB per metre at 1000 MHz. Therefore, at 3850Mhz the loss would be **.33 dB** per metre.

$$.17 \times \frac{1.96}{\sqrt{3850/1000}} = .33 \text{ dB}$$

**RG6** type cable has a typical loss of .22dB per metre at 1000 MHz. Therefore, at 3850 MHz the loss would be **.43 dB** per metre.

$$.22 \times \frac{1.96}{\sqrt{3850/1000}} = .43 \text{ dB}$$

**RG59 type cable** has a typical loss of .46dB per metre at 1000 MHz. Therefore, at 3850 MHz the loss would be **.90 dB** per metre.

$$.46 \times \frac{1.96}{\sqrt{3850/1000}} = .90 \text{ dB}$$

## Specification

### Stacker

#### RF Connectors (750hm) 'F' Type:

LNB 1(Converted) Input: 950MHz - 2150 MHz  
LNB 2 Input: 47MHz - 2150 MHz  
Common Output: 47MHz - 3850 MHz

#### Insertion loss / gain:

LNB 1(Converted) to Common: 0 dB  
LNB 2 to Common: -2 dB

#### Power consumption:

Supplied by De-Stacker

#### Dimensions (waterproof cover):

155 x 122 x 35mm excl. support bracket  
(18mm deep)

### De-Stacker

#### RF Connectors (750hm) 'F' Type:

LNB 1(Converted) Output: 950MHz - 2150 MHz  
LNB 2 Output: 47MHz - 2150 MHz  
Common Input: 47MHz - 3850 MHz

#### Insertion loss / gain

Standard *plus*

Common to LNB 1(Converted): 0 dB +9 dB  
Common to LNB 2: -2 dB +6 dB

#### Power Consumption:

External power supply (included) protected.

#### Dimensions:

116 x 90 x 32mm excl. connectors.

### Combined

#### Operational Cable (CT100 type cable):

LO SSB Phase Noise: -80dBc/Hz at 10kHz offset. Integrated Noise: 1.5degree rms

#### Min Input Level:

Standard +68dBuV with 30m cable  
*plus* +70dBuV with 60m cable

Max Input Level at LNB1: +95dBuV, total power

Spurious Outputs: -40dBc at max. input level

Operating Temperature: -15C - +40C