



5 WIRE TAPS & SPLITTERS INSTRUCTION MANUAL

MODELS:

WT51-10

WT51-20

WT52-10

WT52-20

WT53-10

WT53-20

WS52-05



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GENERAL DESCRIPTION

Whyte Series 5 Taps & Splitters are a range of 5 wire passive devices that distribute IF and Terrestrial Signals. The range includes 1 way, 2 way and 3 way Taps with either 10dB or 20dB tap-offs and a 2 way Splitter with 2 x 4dB tap-offs.

For ease of installation, each Tap & Splitter comes complete with colour coded 600mm F-type leads which enables the Multiswitch to be positioned either side of the Tap as well as vertically or horizontally to suit the available space. The Tap outputs are located on the top of the unit to make installation and servicing easier. A Green LED indicates the presence of power on the HL and HH trunk lines.

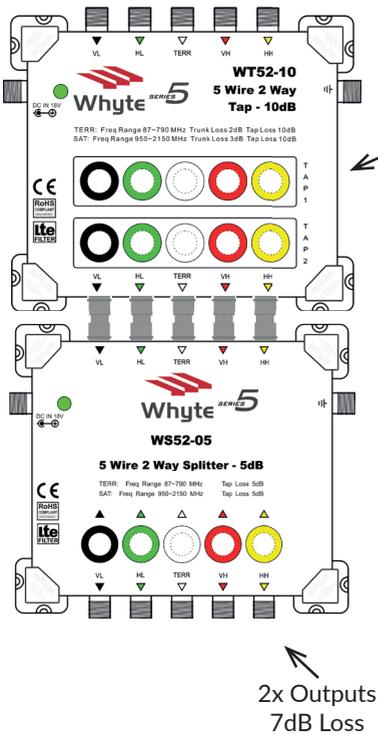
TECHNICAL DESCRIPTION

Whyte Series 5 Taps and Splitters are DC passing on all IF Trunk Lines. The HL and HH Tap Lines are DC passing whilst the VL, VH and Terrestrial Tap Lines are isolated. An Auxiliary 18V Input is provided on all Taps and Splitters which enables a Whyte Power Supply Unit to be conveniently connected anywhere on the system. The Auxiliary Input injects 18V DC on to the HH and HL trunk lines upwards and downwards.

Whyte Series 5 Taps and splitters can be coupled together to create a multitude of 5 wire splitters with various combinations of outputs and tap losses as can be seen below.

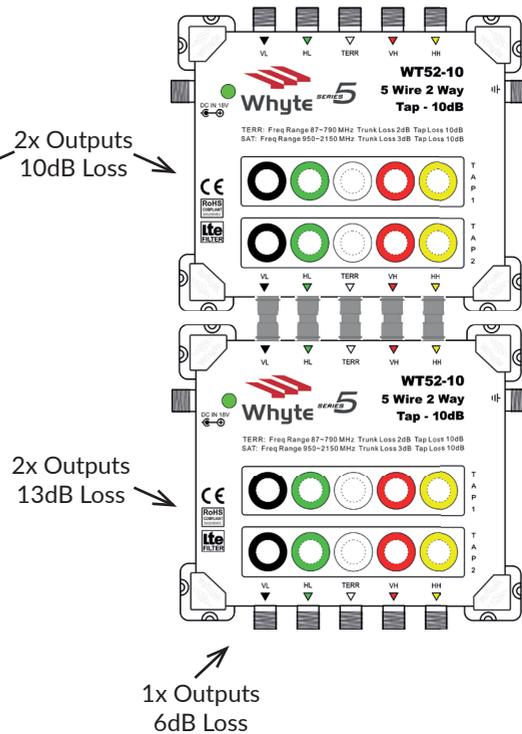
EXAMPLE 5 WIRE 4-WAY SPLITTER

WT52-10
+
WS52-05



EXAMPLE 5 WIRE 5-WAY SPLITTER

WT52-10
+
WT52-10



SAFETY

Whyte Series 5 Taps and Splitters are intended for indoor use only. Do not install the Taps and Splitters in damp, humid, hot or dusty areas.

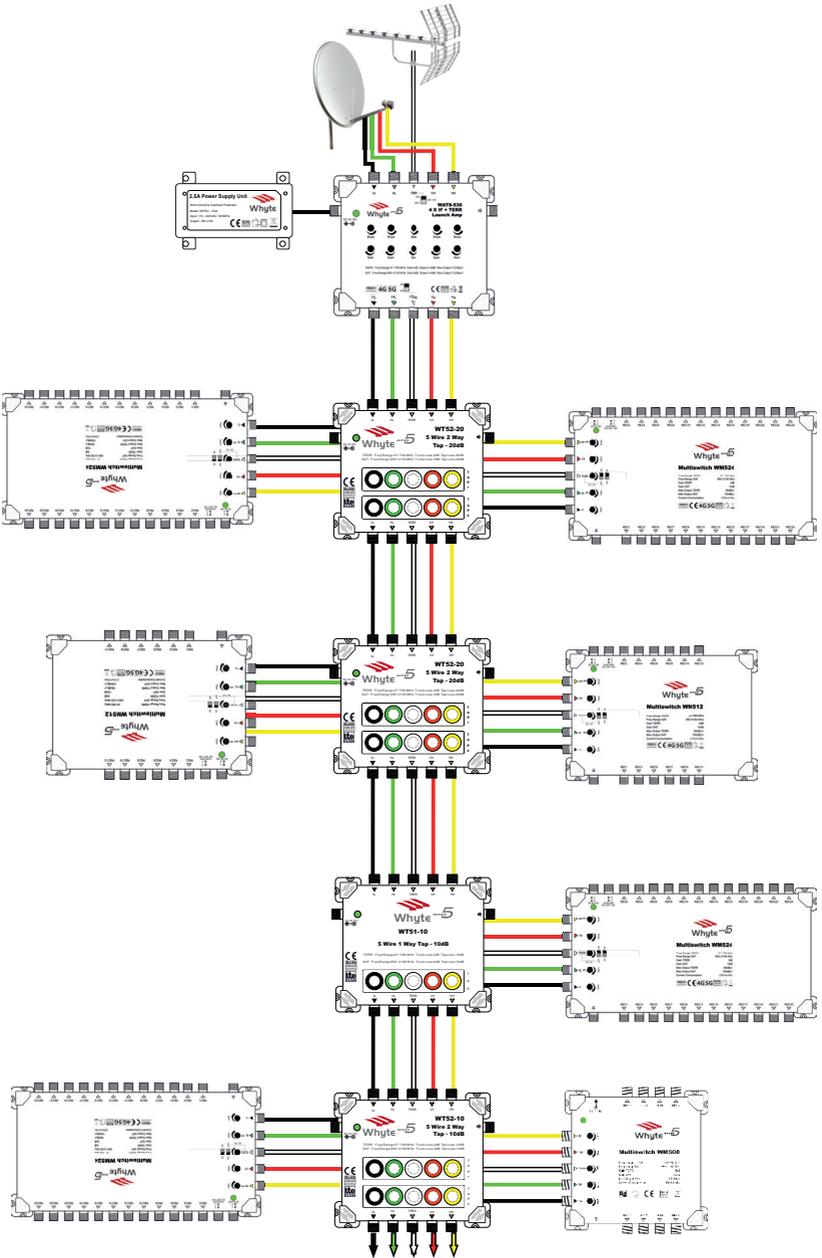
Always earth bond the Taps and Splitters using the earth bonding lug to a suitable earth bonding point, using min 4mm diameter earth cable.

Do not remove the cover of the Taps & Splitters or disassemble them as this will invalidate the guarantee.

GUARANTEE

All Whyte products are guaranteed for a period of 4 years from the date of purchase against defects. Within this guarantee period, Whyte Technologies will repair or replace the faulty product. In the unlikely event, please return any faulty products to your dealer. The Guarantee will be deemed as void if the serial number on the product is removed, damaged or illegible. The Guarantee excludes defects caused by incorrect use, accidental damage, disassembly, water/fire/lightning damage or lack of ventilation.

EXAMPLE APPLICATION



SPECIFICATIONS

Model	WT51-10	WT51-20	WT52-10	WT52-20	WT53-10	WT53-20	WS52-05
Frequency	SAT	950-2150MHz	950-2150MHz	950-2150MHz	950-2150MHz	950-2150MHz	950-2150MHz
	TERR	87-790MHz	87-790MHz	87-790MHz	87-790MHz	87-790MHz	87-790MHz
Inputs (F-Type Connector)	4 SAT + 1 TERR						
Outputs (F-Type Connector)	2x 4 SAT + 2x 1 TERR	2x 4 SAT + 2x 1 TERR	3x 4 SAT + 3x 1 TERR	3x 4 SAT + 3x 1 TERR	4x 4 SAT + 4x 1 TERR	4x 4 SAT + 4x 1 TERR	2x 4 SAT + 2x 1 TERR
DC Input (Injection of DC applied to:)	HL + HH Trunk/Tap						
	SAT	HL + HH					
DC Pass Trunk to Tap	TERR	NO	NO	NO	NO	NO	NO
	SAT	YES	YES	YES	YES	YES	YES
DC Pass Trunk to Trunk	TERR	NO	NO	NO	NO	NO	~
	SAT	NO	NO	NO	NO	NO	~
Trunk Through Loss	SAT	2dB±1dB	2dB±1dB	3dB±1dB	3dB±1dB	3dB±1dB	3dB±1dB
	TERR	2dB±1dB	2dB±1dB	2dB±1dB	2dB±1dB	2dB±1dB	~
Tap Loss	SAT	10dB	20dB	10dB	20dB	10dB	20dB
	TERR	10dB	20dB	10dB	20dB	10dB	20dB
Fixed Slope Taps (SAT)	4dB						
Isolation	>40dB						
Max Current Pass (Trunk/Trunk Trunk/Tap)	2A						
Earth Lug (F-Type connector with clamp)	Up to 6mm ² core						
Dimensions (mm)	156 x 136 x 43						
Weight	385g	385g	425g	425g	462g	464g	385g



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