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FIBRE IRS & ACCESSORIES BROCHURE

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Variable Slope Control SAT
Variable Slope Control TERR
Laser Type
Optical Wavelengths (nm)
Optical Output Power (Per Laser)
DC Supply LNB
DC Supply Masthead Power
Consumption
2 x SAT + 1 TERR
290 ~ 2340MHz
47 ~ 862MHz
65 ~ 75dBµV
60 ~ 70dBµV
12 ± 1dB
8 ± 1dB
FDA / CDRH Class 1M
1530 (V), 1570 (H), 1550 (T)
9dBm
18V
0 / 12V
330mA
RoHS COMPLIANT
UK CA
Manual
TERR
SAT H
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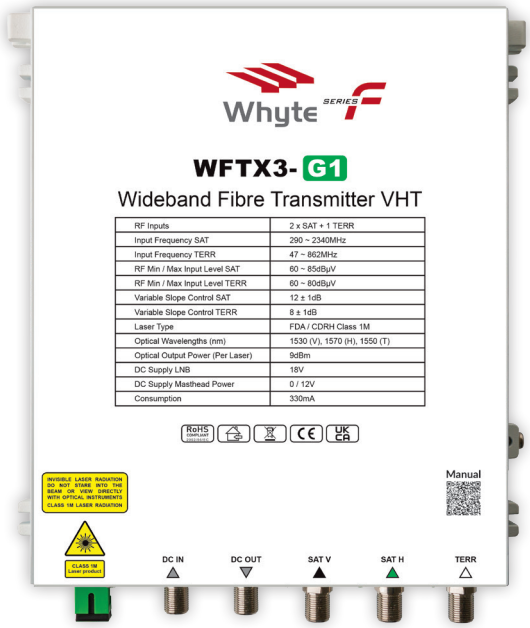
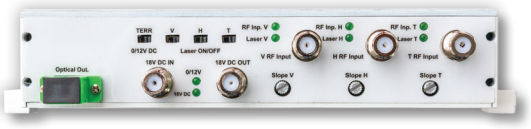
DC OUT
DC IN
INVISIBLE LASER RADIATION DO NOT STARE INTO THE BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS CLASS 1M LASER RADIATION
CLASS 1M Laser product

WFTX3-G1

- 4 Year Warranty
- Single laser per Input
- Wideband SAT Input
- Full band TERR Input
- Variable Slope Control
- RF and Laser Indicators
- Multiple mounting options
- Ultra Low MER Degradation <0.2dB
- Satellite and Terrestrial Optical Transmitter
- 9dBm Optical Power supporting 64-Way split





The Whyte WFTX range of Optical Fibre Transmitters offer an efficient quality solution for Fibre IRS systems. Whyte Optical Transmitters utilise a single laser per input which are multiplexed (CWDM) for a single optical output. This configuration ensures minimum signal degradation. The V and H SAT inputs are compatible with all Wideband LNB's and will accept any signals within the 290~2340MHz range. The TERR input 47 ~ 862MHz supports FM, DAB and DTT.

The WFTX3-G1 features DC in and DC Output, Laser On/Off switches for V, H & TERR, Variable Slope Control for V, H and TERR and Masthead Power switch for enabling/disabling 12V DC at the TERR RF input. The WFTX3-G1 is a three-laser CWDM device.

Dual wideband satellites can be supported using the loop-in loop-out function (two transmitters) WFTX3-G1 and WFTX2-G2 and their matching receivers. Each individual path is supported by Variable Slope Control (VSC) and can be adjusted to present the flattest output for your Fibre IRS system.

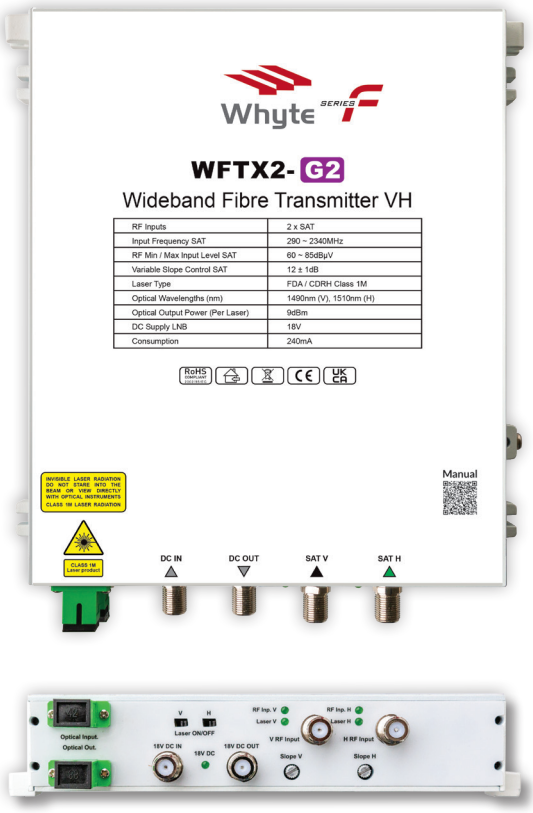
When combined with other products from the Whyte Series F range, large scale FTTH (Fibre To The Home), FTTC (Fibre To The Cabinet) and FTTB (Fibre To The Block) Fibre IRS systems can be successfully implemented.

MODEL	WFTX3-G1
RF Inputs	2x SAT + 1 TERR / 75Ω Female F-Type
Input Frequencies SAT	290 ~ 2340MHz
Input Frequencies TERR	47 ~ 862MHz
RF Input Sequence	V, H, T (left to right)
RF Min/Max Input Level SAT	60 ~ 85dBµV
RF Min/Max Input Level TERR	60 ~ 80dBµV
SAT Input Return Loss	>10dB
TERR Input Return Loss	>8dB
Variable Slope Control SAT	0 (Flat) to 12 ±1dB
Variable Slope Control TERR	0 to 8 ±1dB
RF Input Isolation	>30dB (port to port)
RF Input Status	Below Min Input LED = Off
Laser type	FDA/CDRH Class 1M
Optical Output (SC APC)	1
Optical Wavelengths	1530nm (V), 1570nm (H), 1550nm (T)
Optical Output Power (Per Laser)	9dBm
Optical Output On/Off	Switch (per laser)
Optical Output Status	LED (per laser)
Maximum Optical Splits	x64
DC Supply LNB H & V	18V DC
DC Supply Masthead Power MHP	12V DC (switchable)
DC Input	18V DC
DC Indicator	LED On / Off
DC Output (Aux)	18V rated to 2.5A
Consumption	330mA
Operating Temperature Range	-10 to 50°C
Dimensions L x W x H (mm)	148 x 190 x 36
Weight	1130g

Series **F** Whyte Fibre Optic Transmitters

WFTX2-G2

- 4 Year Warranty
- Single laser per input
- Wideband SAT Input
- Variable Slope Control
- RF and Laser Indicators
- Multiple mounting options
- Satellite Optical Transmitter
- Ultra Low MER Degradation <0.2dB
- 9dBm Optical Power supporting 64-Way split



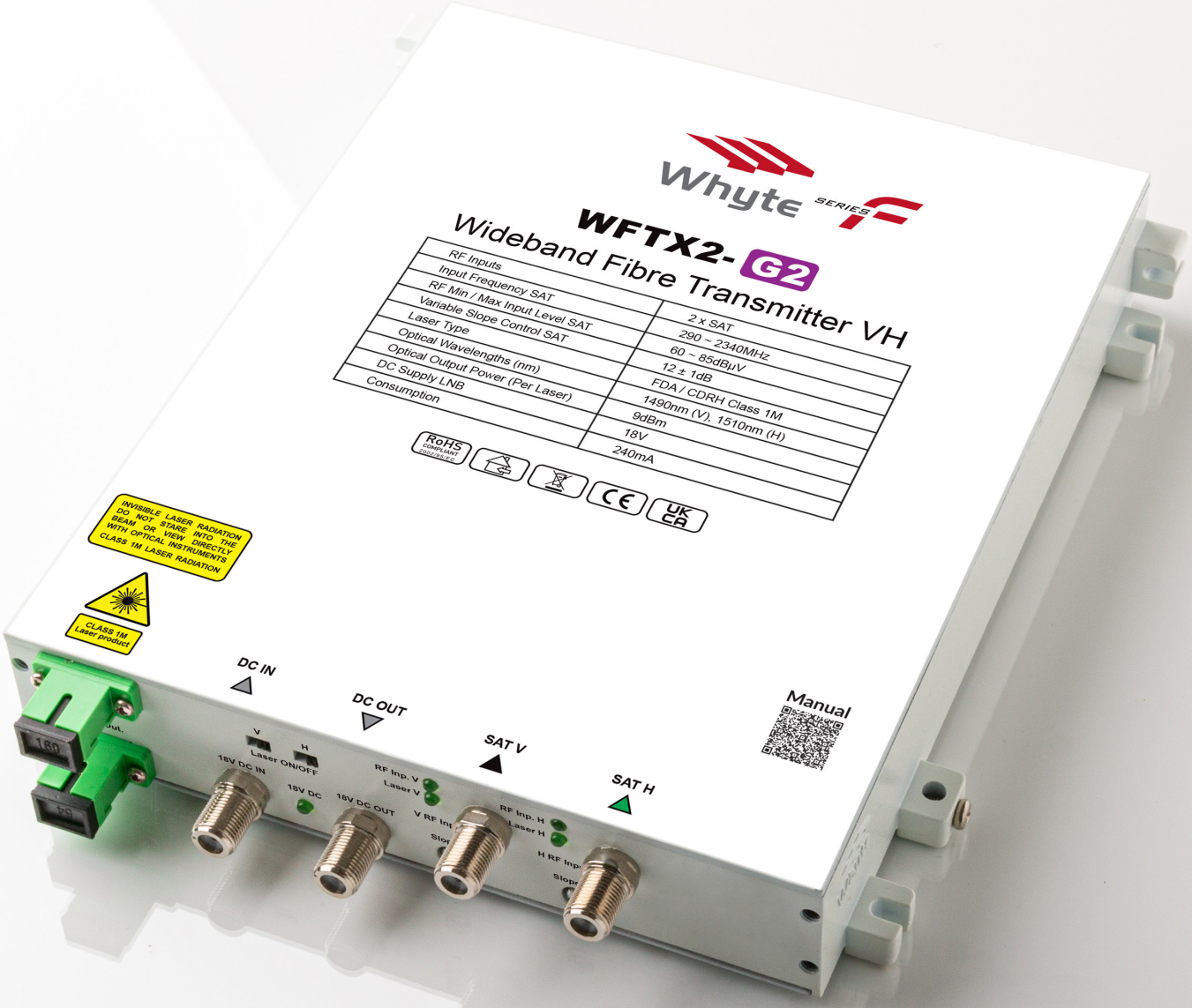
The Whyte WFTX range of Optical Fibre Transmitters offer an efficient quality solution for Fibre IRS systems. Whyte Optical Transmitters utilise a single laser per input which are multiplexed (CWDM) for a single optical output. This configuration ensures minimum signal degradation. The V and H SAT inputs are compatible with all Wideband LNB's and will accept any signals within the 290~2340MHz range.

The WFTX2-G2 features DC in and DC Output, Laser On/Off switches for V and H, Variable Slope Control for V and H SAT Inputs. The WFTX2-G2 is a two-laser CWDM device.

Dual wideband satellites can be supported using the loop-in loop-out function (two transmitters) WFTX3-G1 and WFTX2-G2 and their matching receivers. Each individual path is supported by Variable Slope Control (VSC) and can be adjusted to present the flattest output for your Fibre IRS system.

When combined with other products from the Whyte Series F range, large scale FTTH (Fibre To The Home), FTTC (Fibre To The Cabinet) and FTTB (Fibre To The Block) Fibre IRS systems can be successfully implemented.

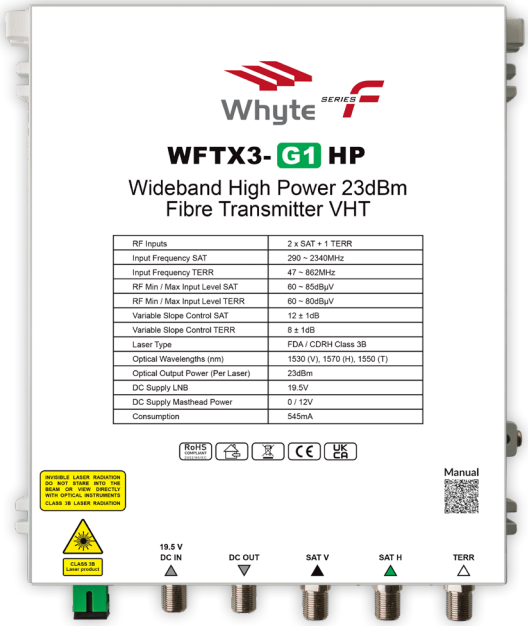
MODEL	WFTX2-G2
RF Inputs	2x SAT / 75Ω Female F-Type
Input Frequencies SAT	290 ~ 2340MHz
RF Input Sequence	V, H (left to right)
RF Min/Max Input Level SAT	60 ~ 85dBµV
SAT Input Return Loss	>10dB
Variable Slope Control SAT	0 (Flat) to 12 ±1dB
RF Input Isolation	>30dB (port to port)
RF Input Status	Below Min Input LED = Off
Laser type	FDA/CDRH Class 1M
Optical Input (SC APC)	1 For optical input from WFTX3-G1
Optical Output (SC APC)	1
Optical Wavelengths	1490nm (V), 1510nm (H)
Optical Output Power (Per Laser)	9dBm
Optical Output On/Off	Switch (per laser)
Optical Output Status	LED (per laser)
Maximum Optical Splits	x64
DC Supply LNB H & V	18V DC
DC Input	18V DC
DC Indicator	LED On / Off
DC Output (Aux)	18V rated to 2.5A
Consumption	240mA
Operating Temperature Range	-10 to 50°C
Dimensions L x W x H (mm)	148 x 190 x 36
Weight	1100g


Whyte
SERIES
WFTX2- G2
Wideband Fibre Transmitter VH
RF Inputs 2 x SAT
Input Frequency SAT 290 ~ 2340MHz
RF Min / Max Input Level SAT 60 ~ 85dBµV
Variable Slope Control SAT 12 ± 1dB
Laser Type FDA / CDRH Class 1M
Optical Wavelengths (nm) 1490nm (V), 1510nm (H)
Optical Output Power (Per Laser) 9dBm
DC Supply LNB 18V
Consumption 240mA
RoHS COMPLIANT
CE
UK CA
INVISIBLE LASER RADIATION DO NOT STARE INTO THE BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS CLASS 1M LASER RADIATION
CLASS 1M Laser product
DC IN
DC OUT
SAT V
SAT H
V
H
Laser ON/OFF
18V DC IN
18V DC
18V DC OUT
RF Inp. V
Laser V
RF Inp. H
Laser H
Manual

Series **F** Whyte High Power Fibre Optic Transmitters (coming soon)

WFTX3-G1 HP

- 4 Year Warranty
- Single laser per Input
- Wideband SAT Input
- Full band TERR Input
- Variable Slope Control
- RF and Laser Indicators
- Multiple mounting options
- Low MER Degradation
- Satellite and Terrestrial Optical Transmitter
- 23dBm Optical Power supporting 1024-Way split



Whyte Technologies introduces the WFTX3-G1 HP, the industry's first compact, high-power 23dBm Optical Transmitter that requires neither 19" rack mounting nor active fan cooling. Designed with passive cooling, this transmitter is perfect for riser environments where space is limited. With a powerful 23dBm optical output, it easily supports large-scale Fibre IRS systems up to 1024-Way splits. Quick to install, the WFTX3-G1 HP comes complete with the WPSU-19.5V power supply for added convenience.

The WFTX3-G1 HP Optical Fibre Transmitter delivers a high-performance and reliable solution for Fibre IRS applications. Each input is equipped with its own dedicated laser, and all signals are combined using CWDM (Coarse Wavelength Division Multiplexing) into a single optical output. This design minimises signal loss and ensures optimal quality. The Vertical and Horizontal SAT inputs are compatible with all Wideband LNBs, accepting signals from 290MHz to 2340MHz, while the TERR input (47MHz to 862MHz) supports FM, DAB, and DTT services.

Packed with advanced features, the WFTX3-G1 HP includes DC input and output, individual Laser On/Off switches for the V, H, and TERR inputs, and Variable Slope Control for precise signal adjustment. It also features a Masthead Power switch for enabling or disabling 12V DC at the TERR RF input.

When used in conjunction with other products from the Whyte Series F range, the WFTX3-G1 HP enables robust and scalable FTTH (Fibre to the Home), FTTC (Fibre to the Cabinet), and FTTB (Fibre to the Block) Fibre IRS deployments.

MODEL	WFTX3-G1 HP
RF Inputs	2x SAT + 1 TERR / 75Ω Female F-Type
Input Frequencies SAT	290 ~ 2340MHz
Input Frequencies TERR	47 ~ 862MHz
RF Input Sequence	V, H, T (left to right)
RF Min/Max Input Level SAT	60 ~ 85dBµV
RF Min/Max Input Level TERR	60 ~ 80dBµV
SAT Input Return Loss	>10dB
TERR Input Return Loss	>8dB
Variable Slope Control SAT	0 (Flat) to 12 ±1dB
Variable Slope Control TERR	0 to 8 ±1dB
RF Input Isolation	>30dB (port to port)
RF Input Status	Below Min Input LED = Off
Laser type	FDA/CDRH Class 3B
Optical Output (SC APC)	1
Optical Wavelengths	1530nm (V), 1570nm (H), 1550nm (T)
Optical Output Power (Per Laser)	23dBm
Optical Output On/Off	Switch (per laser)
Optical Output Status	LED (per laser)
Maximum Optical Splits	x1024
DC Supply LNB H & V	19.5V DC
DC Supply Masthead Power MHP	12V DC (switchable)
DC Input	18V DC
DC Indicator	LED On / Off
DC Output (Aux)	19.5V rated to 2.5A
Consumption	545mA
Operating Temperature Range	-10 to 50°C
Dimensions L x W x H (mm)	148 x 190 x 36
Weight	1330g


Optical Input
Optical Output
Whyte SERIES
TERR (1550nm)
H SAT (1570nm)
V SAT (1530nm)
DC IN 18V
Over
Normal
Under
WFRXVHT- G1
Wideband Fibre Receiver
Single Laser Input Power 0 ~ -14dBm
RF Output Level TERR 76dBµV ± 6dB
RF Output Level SAT 83dBµV ± 3dB
Output Frequency Range TERR 47 ~ 862MHz
Output Frequency Range SAT 290 ~ 2340MHz
Consumption 220mA
RoHS COMPLIANT 2002/95/EC
CE
UK CA
Manual
SAT V +DC
SAT H +DC
TERR
Optical Input
Optical Output
Whyte SERIES
Over
Normal
Under
H SAT (1510nm)
V SAT (1490nm)
DC IN 18V
WFRXVH- G2
Wideband Fibre Receiver
Single Laser Input Power 0 ~ -14dBm
RF Output Level SAT 83dBµV ± 3dB
Output Frequency Range SAT 290 ~ 2340MHz
Consumption 160mA
RoHS COMPLIANT 2002/95/EC
CE
UK CA
Manual
SAT V +DC
SAT H +DC

WFRXVHT-G1 | WFRXVH-G2

- 4 Years Warranty
- Optical Input LED indicators
- Powered via the SAT Outputs
- Ultra Low MER Degradation <0.2dB
- SC APC Fibre Input / Output connector
- WB SAT V, H & TERR Output (WFRXVHT-G1)
- WB SAT V & H (WFRXVH-G2)

WFRXVHT-G1 and WFRXVH-G2 are Wideband Optical Receivers from the Whyte Series F Range. When used with a Whyte Fibre Optic Transmitter, signal degradation between the RF source (the LNB) and the Wideband Optical Receiver is a mere 0.2dB MER. A Tri-colour LED indicator per laser wavelength indicates the optical input status of the receiver.

The Whyte Series F wideband receivers connect directly to all Whyte Series D dSCR Multiswitches and Series 5WB Amplifiers, Taps and Splitters providing a convenient, compact, and robust solution. These wideband fibre receivers are line powered via the SAT outputs.

The WFRXVHT-G1 and WFRXVH-G2 receivers can be linked together (loop-through) enabling two satellites (Wideband) and terrestrial to be received over one fibre using five laser wavelengths. This configuration requires two Whyte Fibre Optic Transmitters that are also interconnected via the Optical Loop-through.

MODEL	WFRXVHT-G1	WFRXVH-G2
Optical Input/Output	SC APC	SC APC
RF Outputs	3 (V & H Wideband SAT + TERR)	2 (V & H Wideband SAT)
Optical Wavelengths	1530nm – 1550nm – 1570nm	1490nm - 1510nm
Frequency Range	47 – 862MHz / 290 – 2340MHz	290 – 2340MHz
Optical Input Level	0 ~ -14dBm	0 ~ -14dBm
Optical Input Levels LED	Low, Nominal and High	Low, Nominal and High
RF Output Level TERR	76dBµV ±6dB	-
RF Output Level Wideband SAT	83dBµV ±3dB	83dBµV ±3dB
RF Return Loss	>10dB	>10dB
RF Output Connector Type	75Ω F Type (Female)	75Ω F Type (Female)
Power Indicator	Green LED	Green LED
DC Supply	Via SAT Outputs (18V DC)	Via SAT Outputs (18V DC)
Power Consumption Max @ 18V DC	220mA	160mA
Dimensions L x W x H (mm)	140 x 72 x 38	140 x 60 x 38
Weight	354g	236g

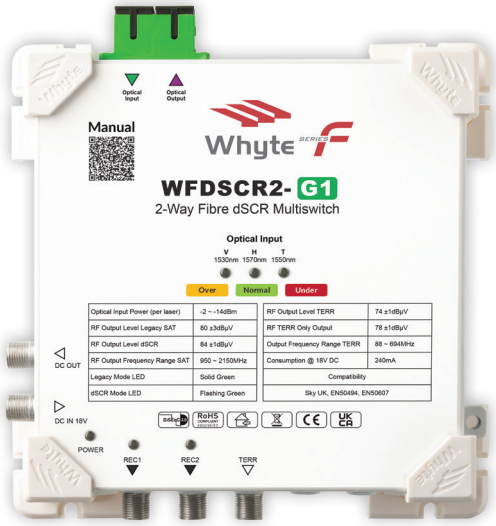
Manual
Optical Input
Optical Output
Whyte
SERIES F
WFDSCR2- G1
2-Way Fibre dSCR Multiswitch
Optical Input
V 1530nm
H 1570nm
T 1550nm
Over
Normal
Under
DC OUT
DC IN 18V
POWER
REC1
REC2
TERR
Optical Input Power (per laser) -2 ~ -14dBm
RF Output Level Legacy SAT 80 ±3dBµV
RF Output Level dSCR
RF Output Frequency Range SAT 84 ±16dBµV
Legacy Mode LED 950 ~ 2150MHz
dSCR Mode LED Solid Green
Flashing Green
RF Output Level TERR 74 ±16dBµV
RF TERR Only Output 78 ±16dBµV
Output Frequency Range TERR 88 ~ 694MHz
Consumption @ 18V DC 240mA
Compatibility
Sky UK: EN50494, EN50607
RoHS
UK CA

Manual
Optical Input
Optical Output
Whyte
SERIES F
WFDSCR4- G1
4-Way Fibre dSCR Multiswitch
Optical Input
V 1530nm
H 1570nm
T 1550nm
Over
Normal
Under
DC OUT
DC IN 18V
POWER
REC1
REC2
TERR
REC3
REC4
Optical Input Power (per laser) -2 ~ -14dBm
RF Output Level Legacy SAT 80 ±3dBµV
RF Output Level dSCR
RF Output Frequency Range SAT 84 ±16dBµV
Legacy Mode LED 950 ~ 2150MHz
dSCR Mode LED Solid Green
Flashing Green
RF Output Level TERR 74 ±16dBµV
RF TERR Only Output 78 ±16dBµV
Output Frequency Range TERR 88 ~ 694MHz
Consumption @ 18V DC 260mA
Compatibility
Sky UK: EN50494, EN50607
RoHS
UK CA

Manual
Optical Input
Optical Output
Whyte
SERIES F
WFRXQT- G1
Quattro + TERR Fibre Receiver
Optical Input
V 1550nm
H 1570nm
T 1550nm
Over
Normal
Under
DC OUT
DC IN 18V
POWER
VL
HL
TERR
VH
Optical Input Power (per laser) -2 ~ -14dBm
RF Output Level SAT 80 ±3dBµV
Output Freq. Range SAT 950 ~ 2150MHz
RF Output Level TERR 75 ±3dBµV
Output Freq. Range TERR 88 ~ 862MHz
Consumption @ 18V DC 560mA
RED
UK CA

WFDSCR2-G1 & WFDSCR4-G1

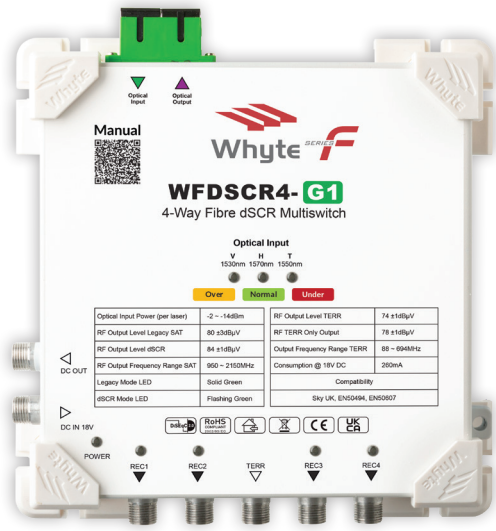
- 4 Year Warranty
- DC Input / Output
- Tri-Colour optical input state LED indicators
- dSCR / Legacy Output SAT 85dBµV TERR 75dBµV
- 2-Way and 4-Way models
- Separate TERR only Output 78 ±1dBµV
- SC APC Fibre Input / Output connectors
- Single laser per path technology for lowest signal degradation



The optical dSCR multiswitch range from Whyte provides access to Sky Q, Legacy, TV and Radio services. The dedicated TERR Output can be amplified and/or split to provide additional TERR sources to bedrooms. Designed for use with the Whyte Fibre Optic product range these are typically used as home terminal units within a fibre to the home (FTTH) IRS system.

Whyte optical dSCRs feature a DC Output for powering additional devices in the apartment. Ideal for the Whyte Advanced Distribution Amplifier (ADA) providing cost effective additional Terrestrial outlets in the apartment.

For maximum flexibility these fibre dSCR receivers feature an optical loop-through so that Group 2 (G2) receivers can be connected enabling dual satellite reception.



MODEL	WFDSCR2-G1	WFDSCR4-G1
Optical Input/Output	SC / APC	SC / APC
RF Outputs	3 (2x dSCR / Legacy / TERR + 1x TERR)	5 (4x dSCR / Legacy / TERR + 1x TERR)
Optical Input Wavelengths	1530nm – 1550nm – 1570nm	1530nm – 1550nm – 1570nm
RF Frequency Range	88 – 862MHz / 950 – 2150MHz	88 – 862MHz / 950 – 2150MHz
Optical Input Power (per laser)	-2 ~ -14dBm	-2 ~ -14dBm
Optical Input Power Indicator	LED Per Laser Wavelength	LED Per Laser Wavelength
RF Output dSCR / Legacy / TERR	84 ±1dBuV / 80 ±3dBuV / 74 ±1BuV	84 ±1dBuV / 80 ±3dBuV / 74 ±1BuV
RF TERR Only Output	78 ±1dBµV	78 ±1dBµV
dCSS / dSCR Userbands	2 x 16	4 x 16
Legacy Mode LED	Solid Green	Solid Green
dSCR Mode LED	Flashing Green	Flashing Green
Return loss	>10dB	>10dB
RF Output Connector Type	75Ω F type (Female)	75Ω F type (Female)
Switching Commands	13/18V / 22kHz / DiSEqC	13/18V / 22kHz / DiSEqC
Compatibility	Sky UK - EN50494 – EN50607	Sky UK - EN50494 – EN50607
Power Consumption Max @18V DC	240mA	260mA
Power Indicator	Green LED	Green LED
Dimensions L x W x H (mm)	168 x 158 x 43	168 x 158 x 43
Weight	480g	492g

Series **F** Whyte Fibre Optic dSCR Multiswitches

WFDSCR2S2W

- 4 Year Warranty
- DC Input / Output
- Optical Input state LED indicator
- dSCR / Legacy Output SAT 85dBµV TERR 75dBµV
- Separate TERR only Output 75dBµV
- SC/APC Fibre Input/Output Connectors
- Single laser per path technology for lowest signal degradation

The optical dSCR multiswitch range from Whyte provides access to Sky Q, Legacy, TV and Radio services. The dedicated TERR Output can be amplified and/or split to provide additional TERR sources to bedrooms. Designed for use with the Whyte Fibre Optic product range these are typically used as home terminal units within a fibre to the home (FTTH) IRS system.

The 2-SAT optical dSCR enables secondary satellite reception via DiSEqC switching commands sent from the set top box. Supports Group 1 & 2 fibre transmitter networks for maximum flexibility.

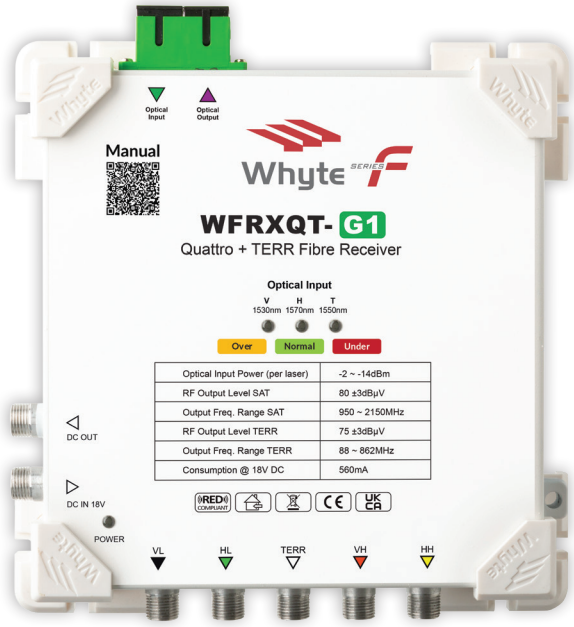
Whyte optical dSCRs feature a DC Output for powering additional devices in the apartment. Ideal for the Whyte Advanced Distribution Amplifier (ADA) providing cost effective additional Terrestrial outlets in the apartment.

MODEL	WFDSCR2S2W
Optical Input/Output	SC / APC
RF Outputs	3 (2x dSCR / Legacy / TERR + 1x TERR)
Optical Input Wavelengths	1490nm - 1510nm - 1530nm – 1550nm – 1570nm
RF Frequency Range	88 – 862MHz / 950 – 2150MHz
Optical Input Power (per laser)	-7 ~ -14dBm
Optical Input Power Indicator	LED
RF Output dSCR / Legacy / TERR	84 ±1dBuV / 80 ±3dBuV / 74 ±1dBµV
RF TERR Only Output	74 ±1dBµV
dCSS / dSCR Userbands	2 x 16
Legacy Mode LED	Solid Green
dSCR Mode LED	Flashing Green
Return loss	>10dB
RF Output Connector Type	75Ω F type (Female)
Switching Commands	13/18V / 22kHz / DiSEqC
Compatibility	Sky UK - EN50494 – EN50607
Power Consumption Max @18V DC	240mA
Power Indicator	Green LED
Dimensions L x W x H (mm)	168 x 158 x 43
Weight	480g

Series **F** Whyte Fibre Quattro Receiver

WFRXQT-G1

- 4 Year Warranty
- Powered via SAT Output or DC Input
- Tri-Colour optical input state LED indicators
- RF Output SAT 80dBµV TERR 70dBµV
- SC APC Fibre Input / Output connectors
- Quattro RF output VL – HL – TERR – VH – HH
- Single laser per path technology for lowest signal degradation
- Easy interfacing to Whyte Series 5, 5WB and D for local RF groups



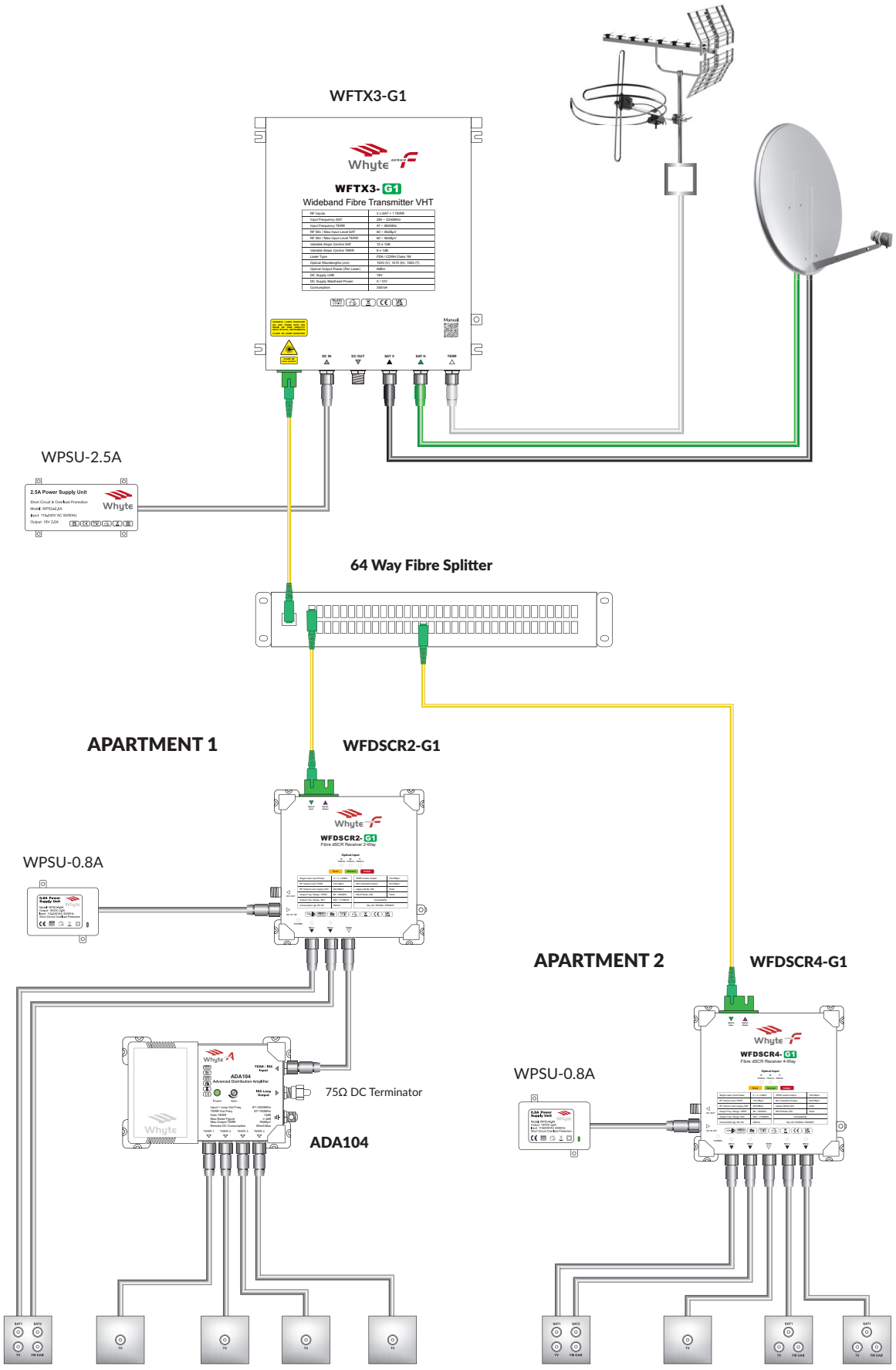
The WFRXQT-G1 is an Optical Quattro Receiver providing VL, HL, TERR, VH and HH outputs which can be directly connected to Whyte dSCRs, Amplifiers, Taps, Splitters, and Legacy Multiswitches with the supplied push fit couplers.

The Whyte Fibre Quattro receiver is ideal for Fibre to the riser scenarios where local RF groups of IRS system hardware provide signals to the apartment. The fibre backbone connectivity makes system planning easier and more convenient for your major installation projects, negating the problems of coaxial loss over great distances.

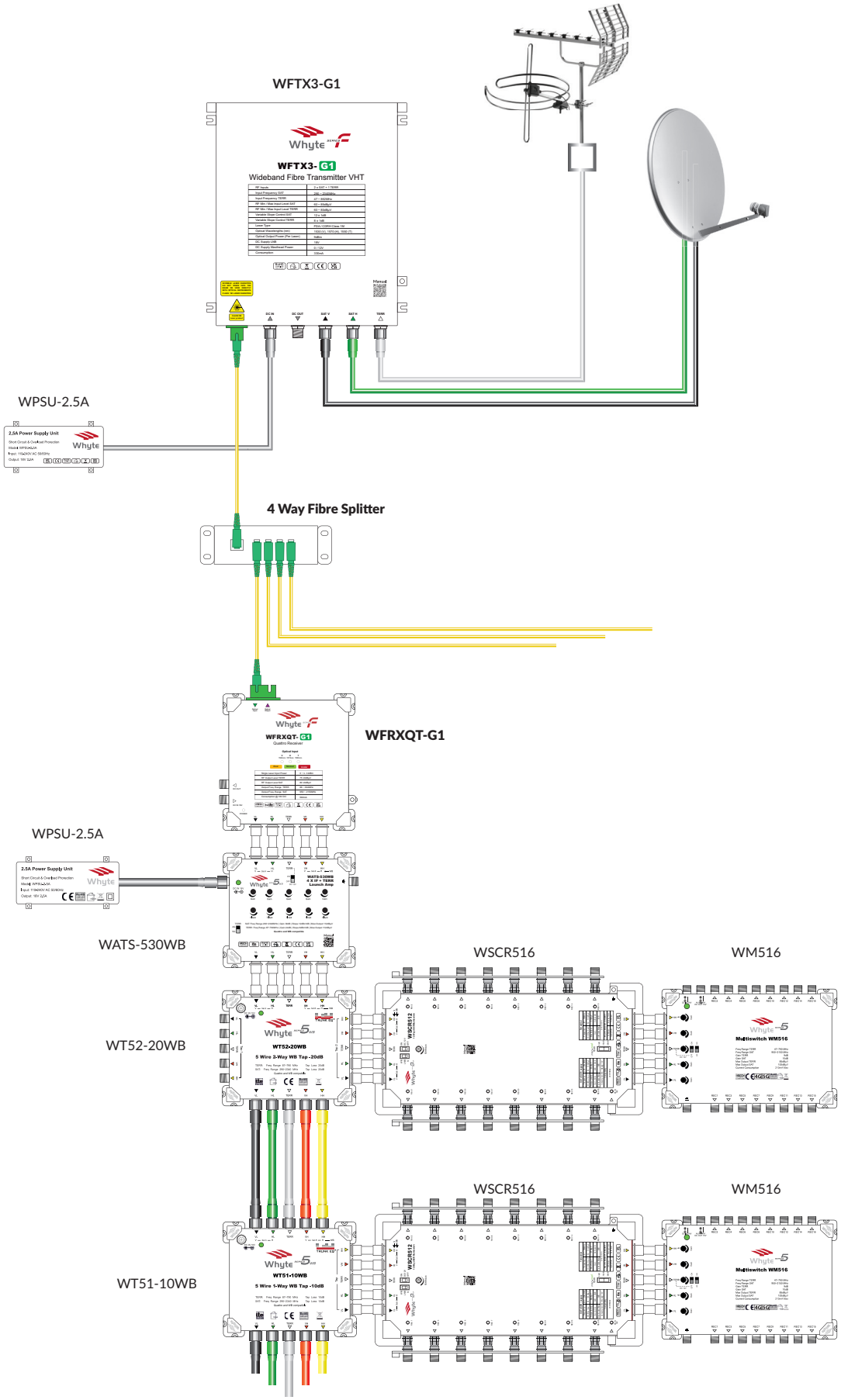
Powering options include DC Input or Trunk power. The optical loop through enables the reception of a second satellite with an additional group 2 (G2) fibre transmitter and matching receiver. Super Hybrid systems in combinations of Wideband and Quattro are easily supported through selecting the Whyte fibre products to match you needs.

MODEL	WFRXQT-G1
Optical Input / Output	SC / APC
Optical Input Wavelengths	1530nm - 1550nm - 1570nm
RF Outputs	5 (VL, HL, TERR, VH, HH)
Frequency Range	88 - 862MHz / 950 - 2150MHz
Optical Input Power (per laser)	-2 ~ -14dBm
Optical Input Power Indicator	LED Per Laser Wavelength
Output level SAT (AGC)	80 ±3dBµV
Output level TERR (AGC)	75 ±dBµV
Return loss	>10dB
RF Output Connector Type	75Ω F type (Female)
Power Consumption Max @18V DC	560mA
Powering 18V DC	Via DC In or SAT RF Outputs
Power Indicator	Green LED
Dimensions L x W x H (mm)	168 x 158 x 43
Weight	492g

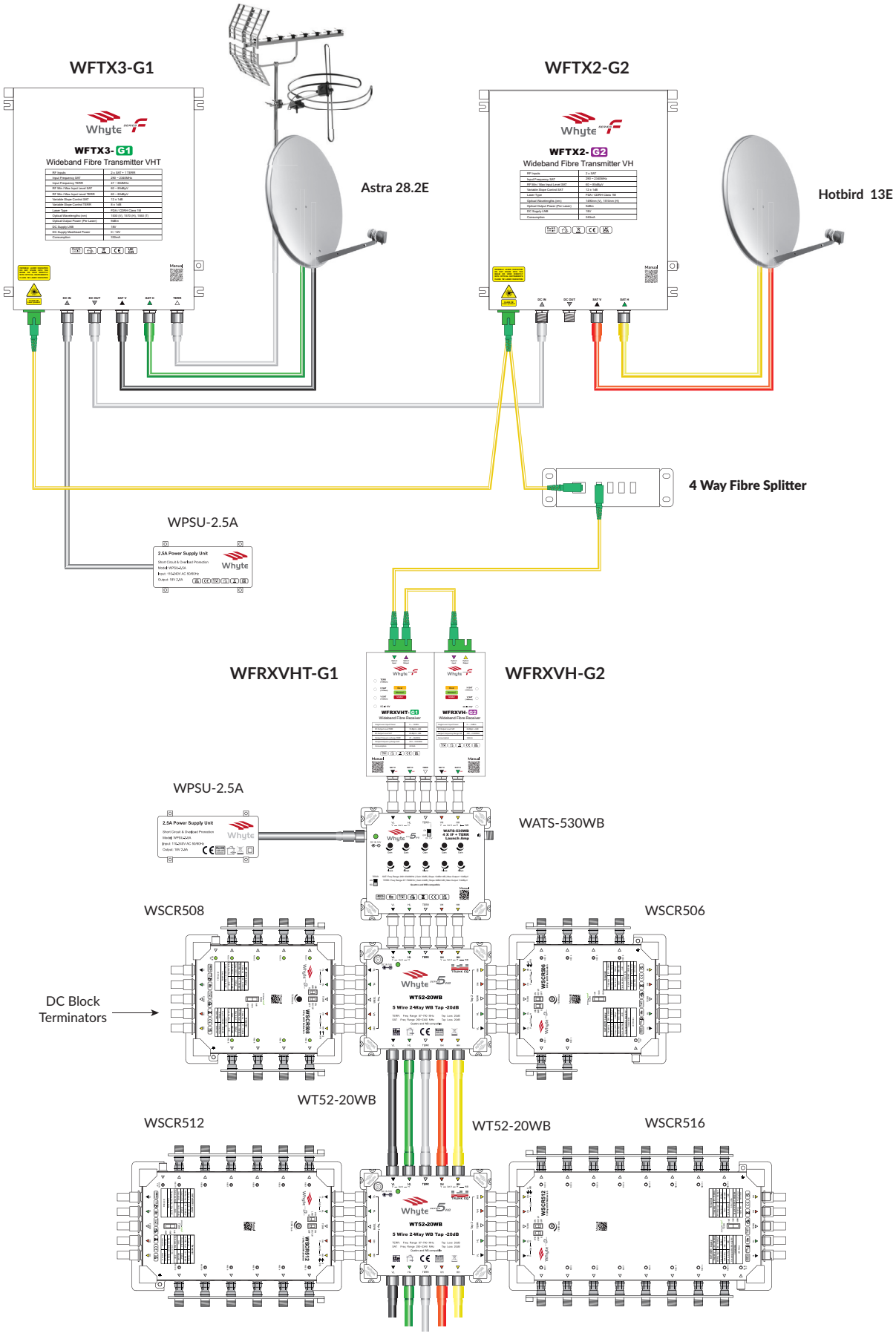
FTTH – FIBRE IRS TO THE HOME



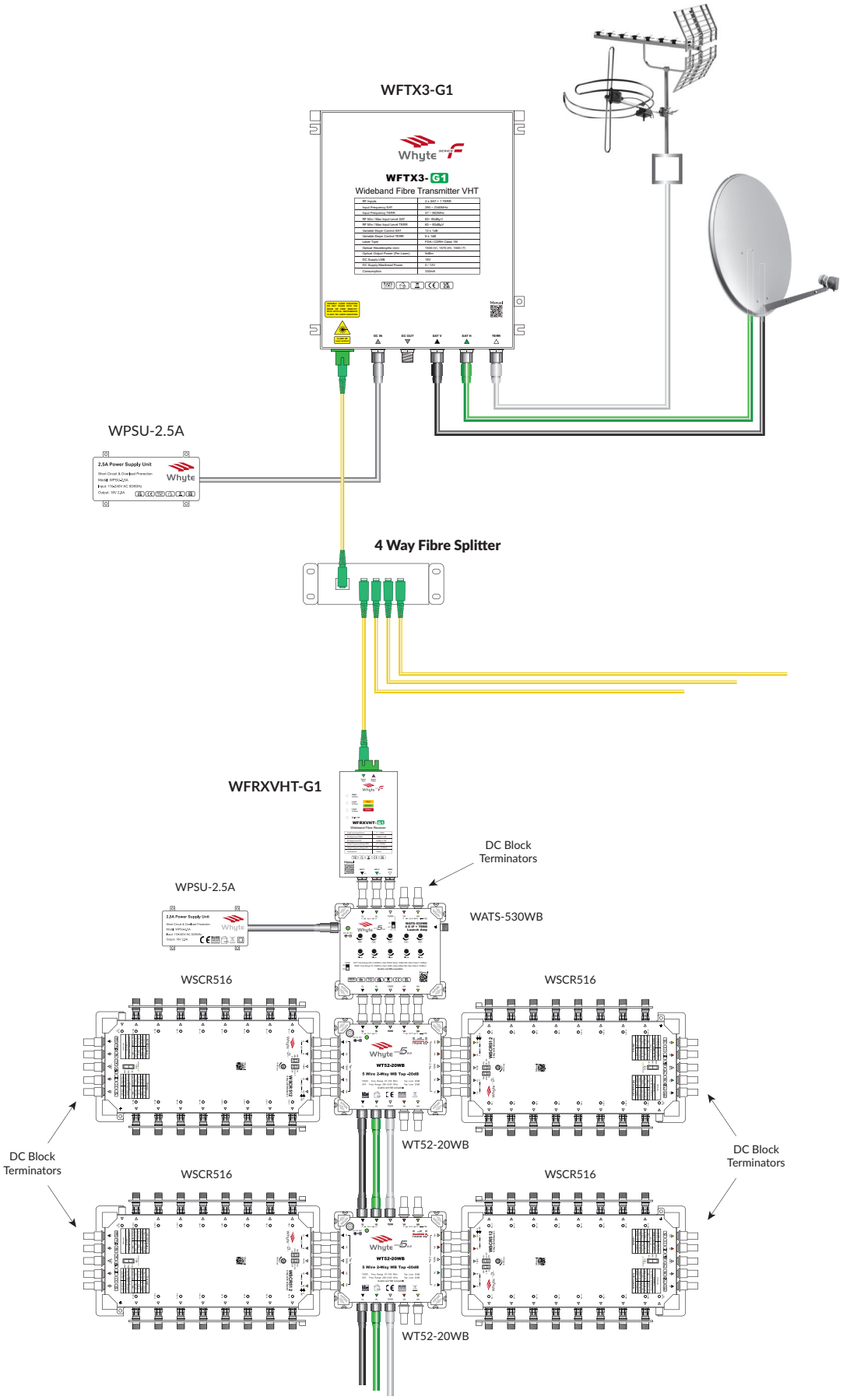
FTTB – HYBRID FIBRE IRS



FTTB – DUAL SAT + TERR FIBRE IRS TO THE BLOCK



FTTB – WIDEBAND SAT + TERR IRS



Series **F** Whyte Fibre Optic Distribution Boxes

WFDB-CAS-08 / 16 / 32 / 64

- Built to withstand harsh environmental conditions
- Complete with installation accessories, ready to fit
- Suitable for multi-core and pre-terminated fibre cables
- Colour coded labelling system TIA-598
- Splice trays with colour coded labelling system & fibre raceway
- Cassette splitter mounting points

8 Way | 16 Way | 32 Way | 64 Way

This range of Whyte Fibre Optic Distribution Boxes provides a robust and flexible solution for indoor and outdoor fibre termination solutions. This range of Fibre Distribution Boxes come with in-built cassette splitter positions, splice trays with a colour coded labelling system and ample cable access ports. They are designed to be used with either pre-terminated or multicore fibre cables and come with an array of installation accesories and consumables for the ultimate convenience of the end-user. The 16 and 32 Way Fibre Distribution Boxes also offer the possibility of stacking multiple boxes thanks to top and bottom cable access ports.

*Pole mounting kit available separately.

DESCRIPTION	WFDB-CAS-08	WFDB-CAS-16	WFDB-CAS-32	WFDB-CAS-64
Splice Capacity	12	16	48	72
Cassette Size Options	Up to 8	Up to 16	Up to 32	Up to 2x 32
Adaptor Bracket Included	8 Way	NO	NO	64 Way
Mounting	Wall / Pole*	Wall / Pole*	Wall / Pole*	Wall / Pole*
Cable Mounting	Vertical	Vertical	Vertical	Vertical
Cable Access Ports Top	~	6	6	6
Cable Access Ports Bottom	4	6	6	6
Fibre Identification Label	TIA-598 Standard	TIA-598 Standard	TIA-598 Standard	TIA-598 Standard
Splice Protectors	12 x 45mm	16 x 60mm	32 x 60mm	64 x 60mm
Rawl plugs	4	4	4	4
Mounting screws	4	4	4	4
Small cable ties	4	8	8	16
Key	1	1	1	1
Cable Sleeve mm	5 x 400 (1pcs)	5 x 600 (2pcs)	5 x 600 (3pcs)	5 x 600 (6pcs)
Earth Blocks	Fitted	Fitted	Fitted	Fitted
M32 Compression Gland	~	1	1	2
M20 Compression Gland	4	1	1	2
M15 Compression Gland	~	1	1	2
Jubilee Clips	~	2	2	2
Colour	Signal White RAL9003	Signal White RAL9003	Signal White RAL9003	Signal White RAL9003
Main Material	UV Resistant ABS Plastic	UV Resistant ABS Plastic	UV Resistant ABS Plastic	UV Resistant ABS Plastic
IP Rating	IP55	IP65	IP65	IP65
Compliance	RoHS, Reach / SVHC	RoHS, Reach / SVHC	RoHS, Reach / SVHC	RoHS, Reach / SVHC
Operating Temperature	-40 ~ +80°C	-40 ~ +80°C	-40 ~ +80°C	-40 ~ +80°C
Storage Temperature	-40 ~ +80°C	-40 ~ +80°C	-40 ~ +80°C	-40 ~ +80°C
Net Weight kg	0.75	1.45	2.5	2.6
Dimensions (H x W x D) mm	260 x 255 x 80	310 x 235 x 110	420 x 350 x 130	420 x 350 x 180

Series **F** Whyte Fibre Optic Cassette Splitters

WFCS-SCAPC-02W / 03W / 04W / 016W / 032W

- Balanced, High uniformity across output ports
- Colour coded labelling system TIA-598
- SC/APC connector type
- Low Insertion Loss
- High Return Loss

2 Way

3 Way

4 Way

8 Way

16 Way

32 Way

The Whyte range of balanced passive optical splitters operate over a wide range of optical wavelengths from 1260 to 1650nm featuring low insertion loss, high uniformity across output ports, high return loss and excellent performance. These cassette splitters are fitted with SC/APC connectors.

Cost effective and highly reliable, Whyte optical cassette splitters are ideal for indoor fibre distribution applications with quick and easy toolless fitting in a range of Whyte Fibre Distribution Boxes.

DESCRIPTION	2 Way	3 Way	4 Way	8 Way	16 Way	32 Way
Port Configuration	1 × 2	1 x 3	1 × 4	1 × 8	1 × 16	1 × 32
Insertion Loss (dB)	3.6	5.5	7.5	10.2	13.5	16.9
Loss Uniformity (dB)	0.4	0.5	0.6	0.8	1.2	1.5
Polarisation Dependent Loss (dB)	0.2	0.2	0.2	0.2	0.2	0.3
Wavelength Dependent Loss (dB)	0.3	0.3	0.3	0.3	0.5	0.5
Temperature Dependent Loss (-40 ~ +85 °C)	0.4	0.4	0.4	0.4	0.5	0.5
Return Loss (dB)	55 / 50	55 / 50	55 / 50	55 / 50	55 / 50	55 / 50
Directivity (dB)	≥55	≥55	≥55	≥55	≥55	≥55
ABS Package Size (mm)	130 x 112 x 25	130 x 112 x 25	130 x 112 x 25	130 x 112 x 25	130 x 110 x 50	266 x 110 x 50
Storage Temperature (°C)	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85
Operating Temperature (°C)	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85

Series **F** Whyte Fibre Optic Termination/Outlet Box

WFOTB-W2 | WFOTB-W4

- Snap together construction
- Screws and Rawl plugs included
- Mini splice tray (WFT0TB-W4 only)
- Compatible with 45mm splice protectors

2 Port

4 Port

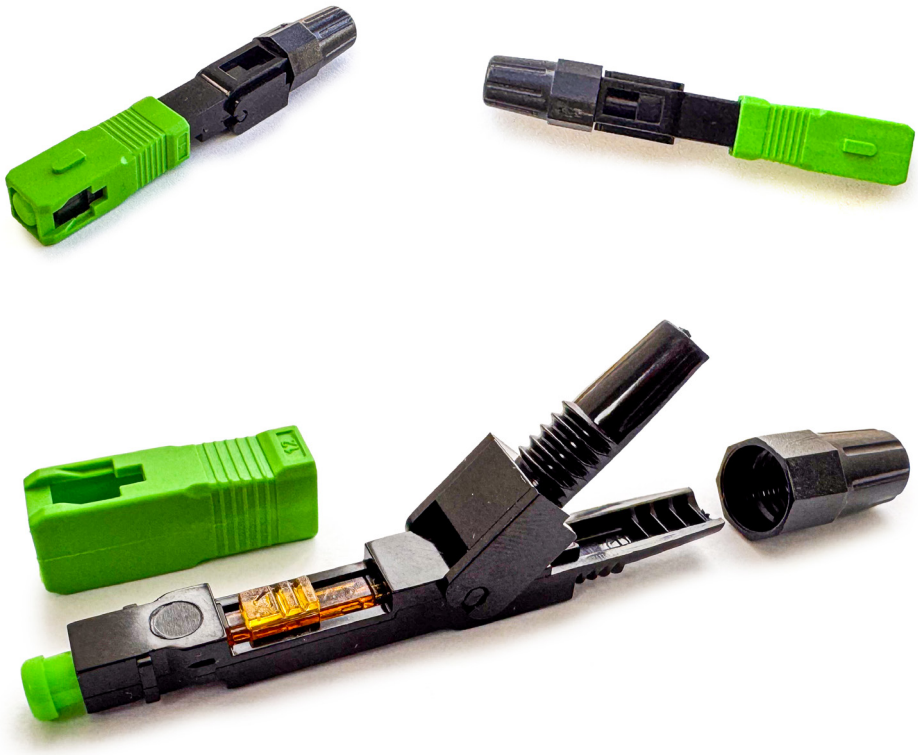
Our Fibre Optic Termination Outlet Boxes offer a reliable and efficient solution for housing and protecting fibre optic terminations in both residential and commercial applications. Designed for ease of installation and maximum versatility, these compact and robust outlet boxes ensure optimal performance and long-term durability.

The WFOTB-W4 has 60 and 80cm fixing centres and can potentially be fixed over a single electrical backbox. It comes complete with an in-built splice tray and up to 4 optical outlet ports (short flanged optical adaptors must ne used). There are also up to 4 cables entry ports available as well as multiple cable entry ports at the rear.

The WFOTB-W2 can be fixed to a single electrical back box and provides up to 2 optical outlet ports.

DESCRIPTION	FOT2	FOT4
Port Configuration	2	4
Optical Coupler Type (SC)	2 Hole Flange	Short Flange
Blanking Inserts	Included	Included
Screw fixing kit	Included	Included
Fixing points distance (mm)	60	60 + 20
Dimensions (mm)	86 x 86 x 22	100 x 84 x 28
Weight (g)	50	80
Pattress box compatible	Yes	No
Splice protector size	45mm	45mm

WFSC-FF-SC/APC (PK 10)

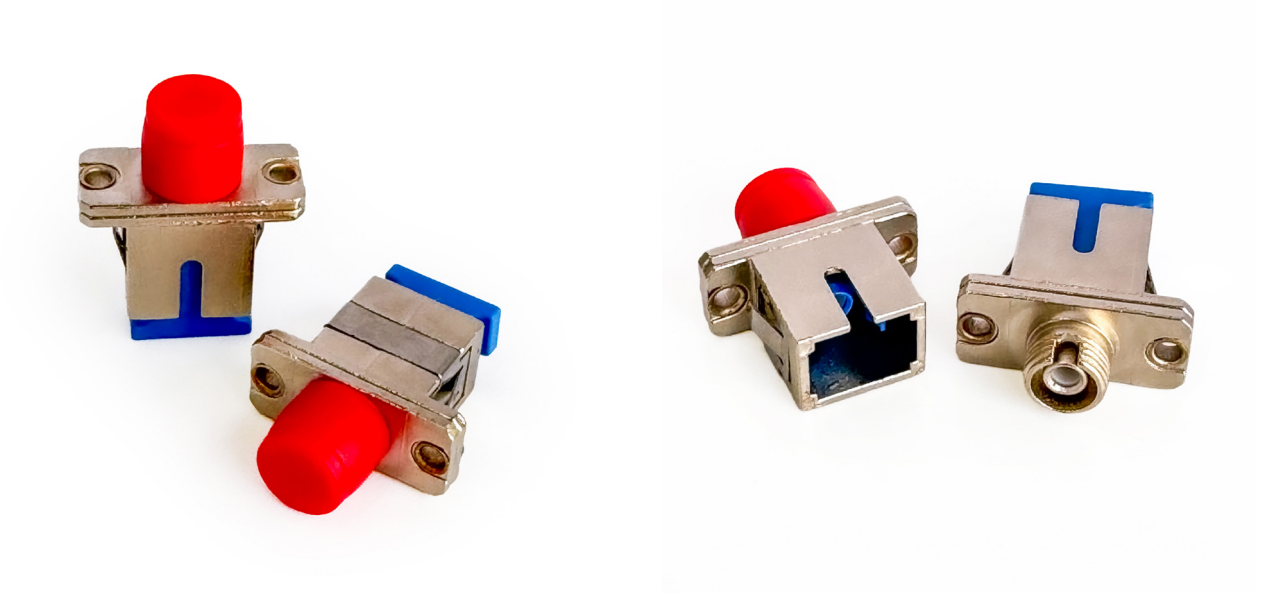


These SC/APC fast connectors are factory pre-polished, field-installable connectors that completely eliminate the need for hand polishing in the field. Using proven mechanical splice technology. A factory pre-cleaved fibre stub combined with index-matching gel provides an immediate low-loss termination.

Note: If 2.0 mm or 3.0 mm OD connections are required, simply remove the 0.9 mm adaptor from the fast connector.

DESCRIPTION	WFSC-FF-SC/APC (PK 10)
Connection	SC/APC Fast Fit
Insertion Loss	≤0.3dB (MA*0.5dB)
Return Loss	≥60dB
Fibre Diameter (mm)	2.0, 3.0, 3.5 GJXH
Tension	20N
Operating Temp.	-40°C ~ 85°C (≤0.5dB)

WFADPT-FCSC - FC/UPC TO SC/UPC (PK 25)



Metal body FC-SC Hybrid Simplex Fiber Optic Adapter, Female to Female.

A fibre optic adapter, sometimes also called a coupler, is a small device designed to terminate or link the fibre optic cables or fibre optic connectors between two fibre optic lines.

The FC-SC Hybrid Fiber Optic Adapter is a special style of fibre optic adapter that supports the precision connection of different types of fibre optic connectors. It is specially designed to incorporate the Small Form Factor FC into SC configured environment.

DESCRIPTION	WFADPT-FCSC
Connector 1	FC/UPC Female
Body Style	Simplex
Body material	Metal
Insertion Loss (dB)	≤0.2
Flammability Rate	UL 94V-0
Connector 2	SC/APC Female
Fibre Mode	Single/Multimode
Durability	1000 times
Working Temperature	-25~70°C
Storage Temperature	-30~75°C

WFCO-SCAPC-OS2-SF | WFCO-SCAPC-OS2-2H

Short Flange

2 Hole

SC/APC to SC/APC Single mode Simplex Fiber Adapter, 0.2dB Insertion Loss.

A fibre optic adapter, sometimes also called a coupler, is a small device designed to terminate or link the fibre optic cables or fibre optic connectors between two fibre optic lines.

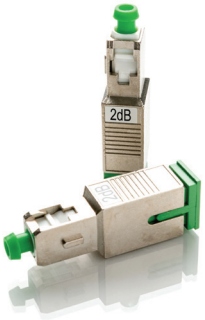
By linking two connectors precisely, fibre optic adapters allow the maximum light source to be transmitted whilst reducing the loss as much as possible. At the same time, fibre optic adapters have the merits of low insertion loss, good interchangeability and reproducibility. Models in this range are Short Flange and 2 Hole Flange.

DESCRIPTION	WFCO-SCAPC-OS2-SF	WFCO-SCAPC-OS2-2H
Connector Type	SC-SC	SC-SC
Polish Type	APC	APC
Insertion Loss	≤0.2dB	≤0.2dB
Mounting Type	Short Flange	2 Hole Flange
Colour	Green	Green
Tray Quantity	50	50
Body Style	Simplex	Simplex
Fibre Mode	OS2 9/125µm	OS2 9/125µm
Durability	1000 times	1000 times
Alignment Sleeve Material	Ceramic	Ceramic
Flammability Rate	UL 94V-0	UL 94V-0
RoHS Compliance Status	Compliant	Compliant

Series **F** Whyte Fibre Optic SC/APC Attenuators

WFAT-SCAPC-02 / 04 / 06 / 08 / 10 / 15

- Snap in Body
- Fast connection
- Precision Polished for Reduced Reflection
- 1260 to 1620nm Wavelength



-2dB

-4dB

-6dB

-8dB

-10dB

-15dB

Whyte fiber attenuators are primarily used to adjust the optical power level. They help in troubleshooting optical power performance, and reduce optical signal strength as needed.

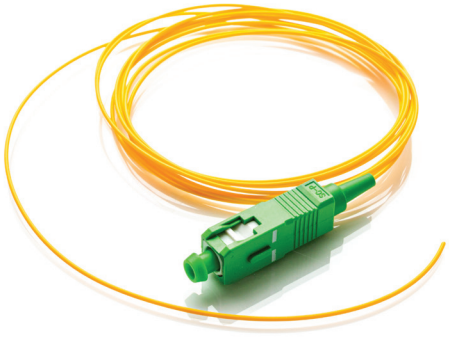
This ensures that the optical power remains steady and at the desired level without altering the original transmission wavelength.

DESCRIPTION	CHARACTERISTIC
Fibre Connector	SC
Connector Gender	Fixed Male to Female
Attenuation	-2, -4, -6, -8, -10 and -15dB
Attenuation Accuracy	±0.5dB
Polarisation Dependent Loss	≤0.2dB
Humidity	95%RH
Storage Temperature Range	-40 to 85°C (-40 to 185°F)
Ferrule Type	Zirconia Ceramic
Operating Wavelengths(nm)	1260 ~ 1620
Return Loss	APC ≥60dB
Maximum Optical Power	200mW
Operating Temperature Range	-40 to 85°C (-40 to 185°F)

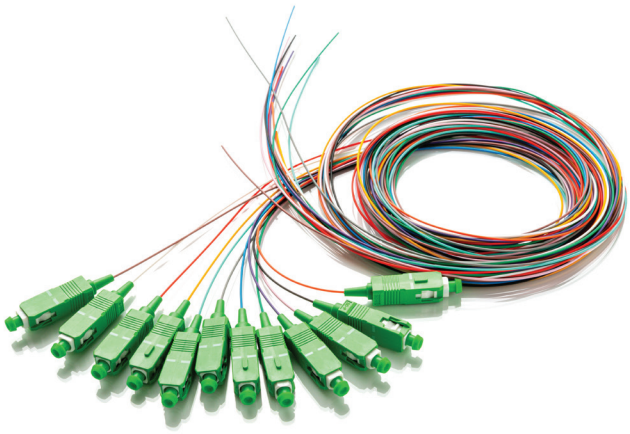
Series **F** Whyte Fibre Optic Pigtails

WFPT-SCA-OS2-PK01 | WFPT-SCA-OS2-PK12

- Optical testing ensures low insertion loss and return loss
- PVC flame-retardant fibre optic cable with a tight-buffered coating on each optical fibre
- The fibres are individually coloured to easily align with color-coded cables for splicing
- Compatible with both fusion and mechanical splicing for fibre cabling systems



Single



12 Pack

The Whyte range Fiber optic pigtails offer a quick solution for assembling fibre distribution boxes in the field. They are designed, manufactured, and tested in compliance with industry standards, ensuring they meet even the most demanding mechanical and performance requirements.

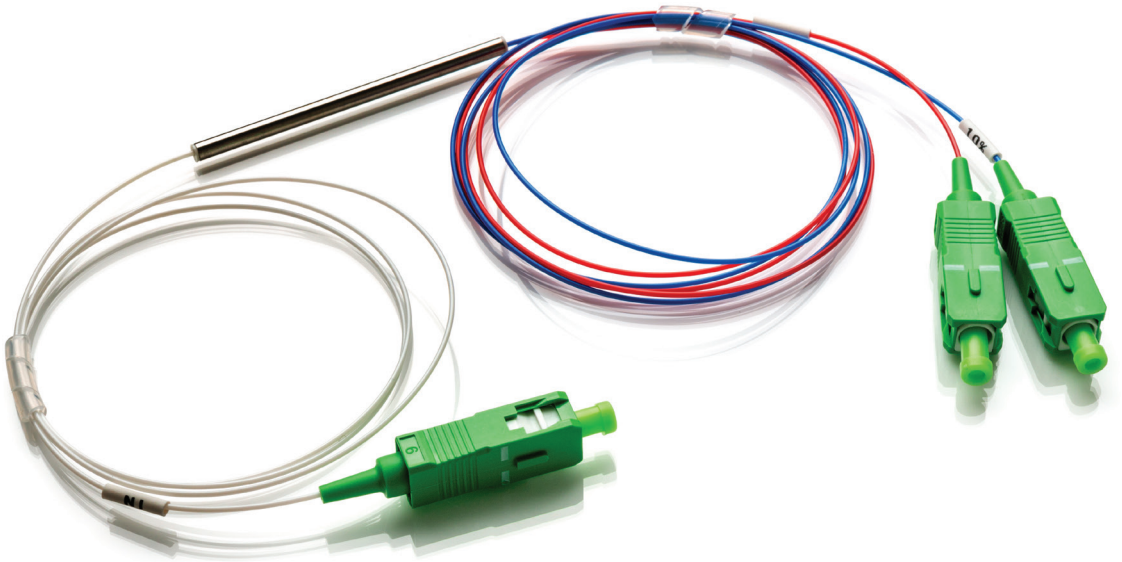
They are easy to strip and fusion splice ensuring fast and accurate installation.

DESCRIPTION	WFPT-SCA-OS2-PK01	WFPT-SCA-OS2-PK012
Fibre Count	1	12
Fibre Mode	Single Mode: OS2	Single Mode: OS2
Connector Type	SC	SC
Fibre Grade	OS2: G 657 A1	OS2: G 657 A1
Cable Jacket	PVC (Riser / OFNR) / LSZH	PVC (Riser / OFNR) / LSZH
Jacket Colour	Yellow	TIA Standard (See TIA-598 Table)
Cable Diameter (mm)	0.9	0.9
Insertion Loss (dB)	≤0.2 dB	≤0.2 dB
Return Loss (dB)	SMF: APC ≥60	SMF: APC ≥60
Attenuation (dB/km)	@1310nm ≤3.6 @1550nm ≤3.6	@1310nm ≤3.6 @1550nm ≤3.6
Bend Radius (mm)	30	30
Interchangeability (dB)	≤0.2	≤0.2
Repeatability (dB)	≤0.1	≤0.1
Operating Temperature	-40°C to 75°C	-40°C to 75°C
Storage Temperature	-45°C to 85°C	-45°C to 85°C
Durability	>500 Times	>500 Times

Series **F** Whyte Fibre Optic Mini Taps

WFT-SCAPC-9010 / 8020 / 7030 / 6040

- Steel tube for splice tray containment
- Male SC/APC connector type
- Precision tap ratios
- High Return Loss
- High Reliability



The Whyte range of mini optical taps operate over a wide range of optical wavelengths from 1260 to 1650nm featuring low insertion loss, high uniformity across output ports, high return loss and excellent directivity performance. These taps are terminated with SC/APC male connectors.

Cost effective and highly reliable, Whyte optical mini taps are ideal for indoor fibre distribution applications with quick and easy toolless fitting in a range of Whyte Fibre Distribution Boxes.

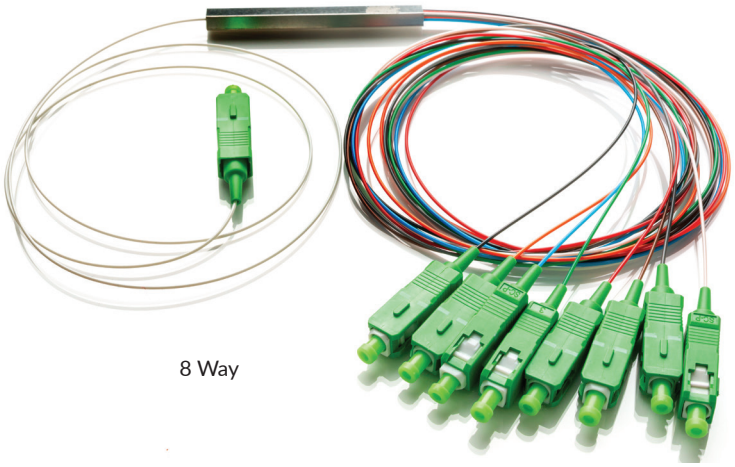
Whyte mini taps feature the following convenient ratios: 90:10 / 80:20 / 70:30 and 60:40

DESCRIPTION	9010	8020	7030	6040
Connector Type	SC/APC Male	SC/APC Male	SC/APC Male	SC/APC Male
Input	1	1	1	1
Live Output Port	1	1	1	1
Tap Output Port	1	1	1	1
Live Insertion Loss Typical (dB)	1	1.5	2.1	2.8
Live Insertion Loss Maximum (dB)	1.2	1.7	2.3	3.0
Tap Insertion Loss Typical (dB)	11	7.7	5.9	4.6
Tap Insertion Loss Maximum (dB)	11.2	7.9	6.1	4.8
Return Loss Live (dB)	≥60	≥60	≥60	≥60
Return Loss Tap (dB)	≥60	≥60	≥60	≥60
Fibre Type (Diameter 0.9mm)	G657A1	G657A1	G657A1	G657A1
Total Length (mm)	1500	1500	1500	1500
Installation Temperature (°C)	0 ~ 60	0 ~ 60	0 ~ 60	0 ~ 60
Operating Temperature (°C)	-10 ~ 60	-10 ~ 60	-10 ~ 60	-10 ~ 60

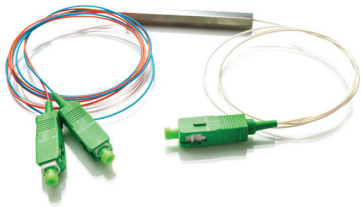
Series **F** Whyte Fibre Optic Mini Splitters

WFMS-SCAPC-02W / 03W / 04W / 08W

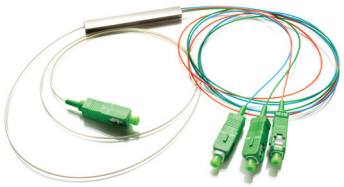
- Balanced, High uniformity across output ports
- Male SC/APC connector type
- Low Insertion Loss
- High Return Loss
- High Reliability



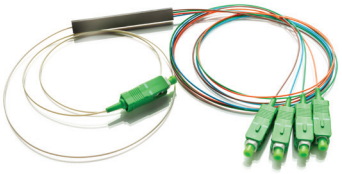
8 Way



2 Way



3 Way



4 Way

The Whyte range of balanced passive optical splitters operate over a wide range of optical wavelengths from 1260 to 1650nm featuring low insertion loss, high uniformity across output ports, high return loss and excellent directivity performance. These splitters are terminated with SC/APC male connectors.

Cost effective and highly reliable, Whyte optical Mini Steel Tube splitters are ideal for indoor fibre distribution applications with quick and easy toolless fitting in a range of Whyte Fibre Distribution Boxes.

DESCRIPTION	2 Way	3 Way	4 Way	8 Way
Port Configuration	1×2	1 x 3	1×4	1×8
Insertion Loss (dB)	3.6	5.5	7.5	10.2
Loss Uniformity (dB)	0.4	0.5	0.6	0.8
Polarisation Dependent Loss (dB)	0.2	0.2	0.2	0.2
Wavelength Dependent Loss (dB)	0.3	0.3	0.3	0.3
Temperature Dependent Loss(-40~85) (dB)	0.4	0.4	0.4	0.4
Return Loss (dB)	55/50	55/50	55/50	55/50
Directivity (dB)	≥55	≥55	≥55	≥55
Storage Temperature (°C)	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85
Operating Temperature (°C)	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85

Series **F** Whyte Fibre Optic Splice Protectors

WSP-100-45 | WSP-100-60

- Clear Outer Tube (shrink tube)
- Clear Inner Tube (Fibre Tube)
- Strength Member (stainless-steel pin)

45mm x 100

60mm x 100

These products are made up of cross-linked polyolefin heat-shrinkable tubes, hot melt tubes and a stainless-steel needle. It is specifically designed for the protection of fibre optical fusion splices. Available in either 60mm or 40mm lengths in bags of 100.

DESCRIPTION	WSP-100-45	WSP-100-60
Length of Tube (mm)	45	60
Inner Tube Diameter (mm)	2.2	2.2
After Recovery Diameter (mm)	3	3
Tensile Strength (Mpa)	18	18
Elongation at Break (%)	700	700
Material Density (g/m3)	0.94	0.94
Dielectric Strength (kV/mm)	25	25
Minimum Shrink Temperature (°C)	120	120
Outer Tube Diameter (mm)	4.3	4.3
Stainless Steel Needle Diameter (mm)	1.5	1.5
Working Temperature (°C)	-55 to 100	-55 to 100
Dielectric Constant	2.5	2.5
Longitudinal Change (%)	±5	±5
Eccentricity	105	105
Volume Resistance Ω	1015	1015
Minimum Full Recovery Temperature (°C)	100	100

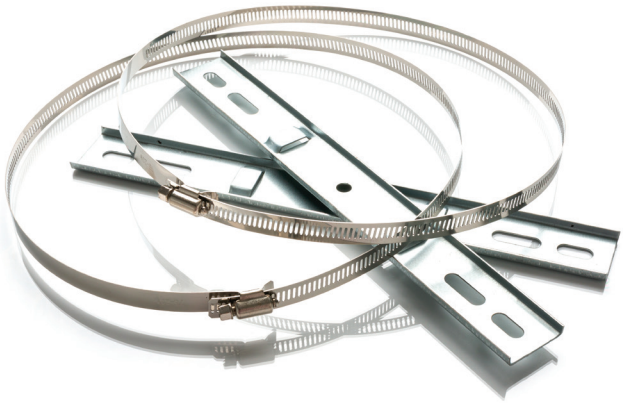
Series **F** Whyte Fibre Distribution Box Pole Mount Kits

PMK-CAS-08 | PMK-CAS-16 | PMK-CAS-32

- Rust and corrosion resistant
- Torsion and pressure resistant
- Tight locking mechanism
- Large range of adjustment
- High Reliability

8 Way Distribution Box Pole Mount Kit

16 Way Distribution Box Pole Mount Kit



32 Way Distribution Box Pole Mount Kit

The Whyte Pole Mount Kits are suitable for indoor or outdoor use for use with the Whyte range of Fibre Distribution Boxes.

DESCRIPTION	CHARACTERISTIC
Bracket plate 16 Way (mm)	78 x 40
Bracket plate 12-24 Way (mm)	150 x 40
Bracket plate 32-48 Way (mm)	240 x 40
Hoop Adjustment (mm)	75~235
Band Material	Stainless Steel
Mounting Plates	Steel with Corrosion Resistant Finish

Series **F** Whyte Hyper Flex Fibre

WFDL-SCA/SCA-OS2001 / 002 / 003 / 004 / 005 / 010 / (BAGGED)

WFDL-SCA/SCA-OS2020 / 030 / 040 / 050 / 60 / 70 / 80 / 90 / 100 / 150 / 200 (REELS)

- Reaction to fire Cca-s1a-d0-a1
- Protected SC/APC connectors
- Bend insensitivity
- CPR compliant
- BS EN 50575
- Easy splicing

Removable plastic film

1 to 10 meter (Bagged)

20 to 200 meter (Reels)

The Whyte Hyper Flex Drop Lead is a pre-terminated SC/APC to SC/APC simplex OS2 G.657.A2 single-mode fibre optic cable. Designed for quick deployment in residential, multi-dwelling units (MDUs), and commercial settings, it features a bend-insensitive tight buffered fibre within a ruggedised 3.5mm Low Smoke Zero Halogen (CCA) jacket, ensuring high performance even in challenging installations.

Key Features:

- **Plug-and-Play Installation:** Pre-terminated with SC/APC connectors, eliminating the need for on-site termination
- **Easy Strip:** Designed to be easily stripped for installations requiring pre-termination at one end only
- **Robust and Rugged:** Has a crush resistance of 100N and pulling strength (tensile) of 260N
- **Connector Protection:** Each connector is protected with a removable plastic film to prevent damage prior to installation
- **Bend-Insensitive Fibre:** Utilizes G.657.A2 fibre, maintaining signal integrity even with tight bend radius
- **Fire Safety Compliance:** Rated Cca-s1a,d0,a1 according to EN 50575, ensuring low flame spread, minimal smoke emission, and no flaming droplets
- **Flexible Deployment Options:** Available in lengths from 1m to 200m; shorter lengths are bagged, whilst lengths of 20m and above are supplied on reels

Applications:

- **Residential Installations**: Ideal for Fibre to the Home (FTTH) deployment
- **Multi-Dwelling Units (MDUs):** Suitable for complex building infrastructures
- **Commercial Buildings:** Ensures compliance with stringent fire safety standards

Certifications:

- **Construction Products Regulation (CPR):** EN 50575 compliant with Cca-s1a,d0,a1 classification, indicating high fire resistance, low smoke emission, and no flaming droplets

DESCRIPTION		UNIT	VALUE
Optical Fibre Type			G.657.A2
Bend Attenuation	10 turns x 15mm radius @ 1550nm	dB	≤0.03
	1 turn x 10mm radius @1550nm	dB	≤0.1
	1 turn x 7.5mm radius @ 1550nm	dB	≤0.5
Additional Standards			ITU-T G.657.A2
Fibre Count		Core	1
Tight Buffer	Diameter	mm	0.90±0.05
	Material		LSZH
	Colour		White
Strength Member			Aramid Yarn
Jacket	Diameter	mm	3.5±0.1
	Material		LSZH (CPR Cca)
	Colour		White
Nominal Weight		kg/km	10.5
Tension (long term)		N	130
Tension (short term)		N	260
Crush (long term)		N/10cm	100
Crush (short term)		N/10cm	500
Min. Bend Radius	(Dynamic)	mm	15D
Min. Bend Radius	(Static)	mm	7.5D
Installation Temperature		°C	-10 ~ +50
Operating Temperature		°C	-20 ~ +60

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In the interest of continuous improvement,
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