



UK

TV DISTRIBUTION | DATACOM | HOSPITALITY

QUICK PRODUCT GUIDE 2024

Televes[®]

OVERLIGHT

ENHANCED ELECTRONICS AND OPTICAL ENGINEERING TO LIGHT UP YOUR TV



SATELLITE AND TERRESTRIAL TV DISTRIBUTION OVER FIBRE OPTICS

With the Overlight series you will get an integrated TV installation with all the services through a single optical fibre, **reducing the number of antennas and devices in the installation without losing the quality of the terrestrial and satellite TV signal.**

Thanks to the low losses of the fibre and the high distribution rate, it is possible to provide TV services to housing estates, blocks of apartments, hotels and campsites, residences, and other FTTx solutions.



Satellite and Terrestrial
Distribution



Optimized
electronic design



GPON
compatible



100% Made in
Teles

Teles

TV DISTRIBUTION

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T.OX series:

- In case of modules with CI, it is the responsibility of the concerned person to consult Televés and check compatibility of CAM and card with the module. Simultaneous decryption of services (CAM Pro): If CAM and card allow it.
- The number of modules indicated for supports and enclosures is based solely on the available space; but the number of installable modules may be limited by other restrictions as consumption or temperature.

Compatibility between tower ranges:

Due to their assembly system, tower ranges 450/550 (systems with union nuts), 450XL (systems with security bolts) and 550ULTRA (system with plates) are not compatible with each other.


Multiswitches:

- Some ranges of multiswitches include earth bonding bars. Contact us for more information about these references.
- PSU is only included in Quad compatible version.

★ New
 📦 Pack boxed in
TFORCE TForce Technology

Integrated protection against LTE:

LTE790 Channel 60 filtering (790MHz)
LTE700 Channel 48 filtering (694MHz)
AUTO LTE Channel 48/60 filtering (automatic switching)





🔍 **Identifying colour in product**

● Orange	● Graphite	● Aqua blue
○ White	● Black	● Magenta
● Red	● Violet	○ Beige
● Grey	● Blue	● Green

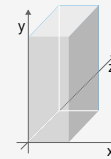
Packaging type for coaxial cable

● Plastic reel	📦 EasyBox
● Wooden drum	

CAI Logos

 Type 100	 Type RG6
--	--

Dimensions: xyz
 (width x height x depth)



OLC technology:

The OLC (Optical Level Control) technology, included in some optical products, automatically adjusts the parameters to achieve a constant output level, irrespective of the channel.

CENELEC standard for cables:

- EN 50117-2-1: Indoor Cable 5...1000MHz
- EN 50117-2-4: Indoor Cable 5...3000MHz
- EN 50117-2-5: Outdoor Cable 5...3000MHz

Optical fibre cables:

References 231414, 231614 and 231714 are supplied by meter, per customer request.

Data cables:

Cables and patch cords with copper inner conductor are compatible with PoE/PoE+ (Power Over Ethernet) technology.

Hospitality:

- Systems that integrate FibreData (GPON) and ArantiaTV require Layer2+ or Layer3 switches.

TV DISTRIBUTION

The distribution of radio communication services is the traditional core of our company.



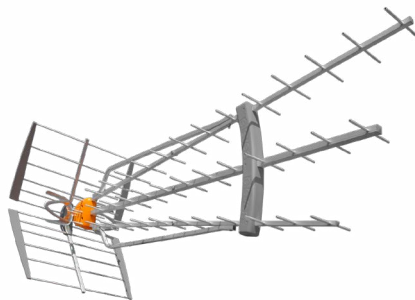


TV DISTRIBUTION TERRESTRIAL ANTENNAS

Ref.	Description		
INTELLIGENT (WITH BOSSTECH)			
ELLIPSE SERIES			
Ellipse			
148920	Ellipse Terrestrial Antenna UHF (Ch21-48), G 38dBi BOSS ON (Multiple Packing)	T FORCE LTE700 ●	8
148923	Ellipse Terrestrial Antenna UHF (Ch21-48), G 38dBi BOSS ON PSU included 12V-220mA, UK plug (Single Packing)	T FORCE LTE700 ●	1/4
DAT SERIES			
DAT BOSS			
149921	DAT BOSS Terrestrial Antenna UHF (Ch21-48) G 17dBi BOSS OFF, G 42dBi BOSS ON (Single packing)	T FORCE LTE700 ●	1/5
149922	DAT BOSS Terrestrial Antenna UHF (Ch21-48) G 17dBi BOSS OFF, G 42dBi BOSS ON (Multiple packing)	T FORCE LTE700 ●	6
DAT BOSS LR			
149721	DAT BOSS LR Terrestrial Antenna UHF (Ch21-48) G 19dBi BOSS OFF, G 47dBi BOSS ON (Single packing)	T FORCE LTE700 ●	1
NOVA SERIES			
DINOVA BOSS			
144021	DINOVA BOSS Terrestrial Antenna UHF (Ch21-48) G 7dBi BOSS OFF, G 34dBi BOSS ON	T FORCE LTE700 ○	1
144022	DINOVA BOSS Terrestrial Antenna UHF (Ch21-48) G 7dBi BOSS OFF, G 34dBi BOSS ON (Kit with accessories)	T FORCE LTE700 ○	1
144223	DINOVA BOSS MIX Terrestrial Antenna BIII/UHF (Ch5-12/21-48) G 1/6dBi BOSS OFF, G 27/32dBi BOSS ON	T FORCE LTE700 ○	1
144224	DINOVA BOSS MIX Terrestrial Antenna BIII/UHF (Ch5-12/21-48) G 1/6dBi BOSS OFF, G 27/32dBi BOSS ON (Kit with accessories)	T FORCE LTE700 ○	1
CAMPNOVA BOSS			
144521	CAMPNOVA BOSS Terrestrial Antenna FM/BIII/UHF (Ch5-12/21-48) G -2/20/30dBi BOSS ON (Kit with accessories)	T FORCE LTE700 ○	1
OMNINOVA BOSS			
144422	OMNINOVA BOSS Terrestrial Antenna BI/FM/BIII/UHF (Ch3-12/21-48) G 17/16/25/25dBi BOSS ON (Kit with accessories)	T FORCE LTE700 ○	1
INDOOR SERIES			
BEXIA series			
130501	BEXIA Indoor Terrestrial Antenna VHF/UHF (Ch5-12/21-48) G 15/18dBi (USB-microUSB cable included, for 5V powering)	T FORCE LTE700 ●	1/6
INNOVA BOSS			
130220	INNOVA BOSS Indoor Terrestrial Antenna UHF (Ch21-48) G 20dBi (USB-microUSB cable included, for 5V powering)	T FORCE LTE700 ●	1
130320	INNOVA BOSS MIX Indoor Terrestrial Antenna VHF/UHF (Ch5-12/21-48) G 17/20dBi (USB-microUSB cable included, for 5V powering)	T FORCE LTE700 ●	1
MIRA BOSS			
130121	MIRA BOSS Indoor Terrestrial Antenna UHF (Ch21-48) G 18dBi	T FORCE LTE700 ●	1/240



▲ 144021



▲ 149721



▲ 144521



▲ 130220



▲ 130121

ELLIPSE



DISCOVER IT!
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INTELLIGENCE TAKEN TO THE LIMIT

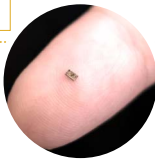
A new concept in DTT antenna that eliminates any interference even in limit of the TV band, combining break-through design and the new generation of TForce with SAW filtering in a 100% stainless mechanical frame.



PSU included: intelligence is activated when the antenna is powered.



Look for the TForce mark in you intelligent antenna to guarantee the best quality reception.



TForce increases the coverage of a TDT antenna, amplifying almost imperceptible signals and remaining inalterable for very strong signals.

uk.televes.com/tforce

BEXIA



Outdoor performance, indoors

BEXIA is a DVB-T / T2 indoor antenna with a clean and sleek design, with technology used to achieve the performance of an outdoor antenna. BEXIA does not have to be aligned to the signal, and also impresses with a certain power consumption.



TV DISTRIBUTION TERRESTRIAL ANTENNAS

Ref.	Description		
INTELLIGENT (WITH BOSSTECH)			
ACCESSORIES			
Power supply units			
5501	Domestic Power Supply Unit 1i/2o "F": 5...862MHz 12V-220mA (UK Plug)		1
579401	PicoKom Domestic Power Supply Unit 1i/2o "EasyF": 5...2400MHz 12V-200mA		1/10
5796	PicoKom Domestic Power Supply Unit 1i/1o "EasyF" SATmix: 5...2400MHz 12V-220mA		1/10
Domestic amplifiers			
545901	Auto-LTE Domestic Amplifier 1i/(2o+TV) "F": 47...694/790MHz G 20dB Vo 101dBµV w/USOS + Output to a TV Outlet G 11dB + Preamp.Powering 12V-100mA	AUTOLTE	1
560521	PicoKom Domestic Amplifier 1i/1o "EasyF": 47...694MHz G 14/20dB Vo 102/105dBµV Auto-Adjustment + Preamp.Pow. 12V-150mA	LTE700	1/10
560522	PicoKom Domestic Amplifier 1i/2o "EasyF": 47...694MHz G 10/16dB Vo 98/101dBµV Auto-Adjustment + Preamp.Pow. 12V-150mA	LTE700	1/10
560523	PicoKom Domestic Amplifier 1i/(2o+TV) "EasyF": 47...694MHz G 10/16dB Vo 98/101dBµV Auto-Adjustment + Preamp.Pow. 12V-150mA	LTE700	1/10
Accessories			
494702	Coaxial Atmospheric Surge Arrestor 90V 0...3GHz		1
Ref.	Description		
PASSIVE			
VHF AND MIXED			
FM antenna			
1201	FM Terrestrial Antenna 88...108MHz Circular G 1dBi		1/5
Bill or DAB antenna			
1050	Bill/DAB Terrestrial Antenna 174...240MHz 3 Elements G 8dBi (Single Packing)		1
105001	Bill/DAB Terrestrial Antenna 174...240MHz 3 Elements G 8dBi (Multiple Packing)		5
UHF			
L antenna			
112120	L 700 Terrestrial Antenna UHF (Ch21-48) 18 Elements G 13dBi	LTE700	6
112121	L 700 Terrestrial Antenna UHF (Ch21-48) 18 Elements G 13dBi Black	LTE700	6
V Zenit antenna			
149221	V ZENIT Terrestrial Antenna UHF (Ch21-48) G 15dBi (Single packing)	LTE700	1/6
149222	V ZENIT Terrestrial Antenna UHF (Ch21-48) G 15dBi (Multiple packing)	LTE700	9
149223	V ZENIT Terrestrial Antenna UHF (Ch21-48) G 15dBi (Multiple Packing) Black	LTE700	9
Ref.	Description		
MOBILE DATA (LTE)			
4G			
650101	4GNOVA Antenna 4G/LTE 698...960/1700...2700MHz G 7dBi (0.7m Female "N")		1
650302	Kit: 2x 4G/LTE MIMO Antenna "SMA" 698...960/1700...2700MHz G 1/3,5dBi		1

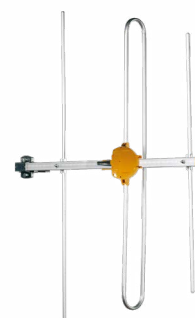
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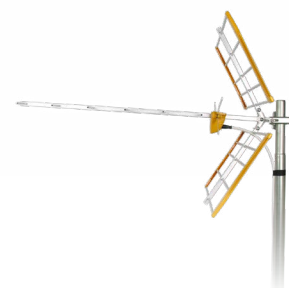
▲ 5501



▲ 560523



▲ 1050



▲ 112120



▲ 149221



▲ 650101



▲ 650302



TV DISTRIBUTION SATELLITE DISHES

Ref.	Description		
ALUMINIUM OFFSET SATELLITE DISHES			
QSD SERIES			
QSD75			
7902	QSD High Quality Offset Dish 75 Aluminium G 38.5dBi (750x850mm) Orange	●	1
790202	QSD High Quality Offset Dish 75 Aluminium G 38.5dBi (750x850mm) Graphite	●	1
790204	QSD High Quality Offset Dish 75 Aluminium G 38.5dBi (750x850mm) White	○	1
QSD85			
7903	QSD High Quality Offset Dish 85 Aluminium G 39.5dBi (850x950mm) Orange	●	1
790302	QSD High Quality Offset Dish 85 Aluminium G 39.5dBi (850x950mm) Graphite	●	1
790304	QSD High Quality Offset Dish 85 Aluminium G 39.5dBi (850x950mm) White	○	1
ISD SERIES			
630			
793001	ISD Offset Dish 630 Aluminium G 36.2dBi Orange	●	1
793002	ISD Offset Dish 630 Aluminium G 36.2dBi White	○	1
793003	ISD Offset Dish 630 Aluminium G 36.2dBi Graphite	●	1
793011	ISD Offset Dish 630 Aluminium G 36.2dBi Orange (Multiple packing)	●	10
793012	ISD Offset Dish 630 Aluminium G 36.2dBi White (Multiple packing)	○	10
793013	ISD Offset Dish 630 Aluminium G 36.2dBi Graphite (Multiple packing)	●	10
830			
793101	ISD Offset Dish 830 Aluminium G 39dBi Orange	●	1
793102	ISD Offset Dish 830 Aluminium G 39dBi White	○	1
793103	ISD Offset Dish 830 Aluminium G 39dBi Graphite	●	1
793109	ISD Offset Dish 830 Aluminium G 39dBi Graphite (No Televes logo)	●	1
793111	ISD Offset Dish 830 Aluminium G 39dBi Orange (Multiple packing)	●	5
793112	ISD Offset Dish 830 Aluminium G 39dBi White (Multiple packing)	○	5
793113	ISD Offset Dish 830 Aluminium G 39dBi Graphite (Multiple packing)	●	5
793119	ISD Offset Dish 830 Aluminium G 39dBi Graphite (No Televes logo)	●	5



Compatibility between supports & dishes

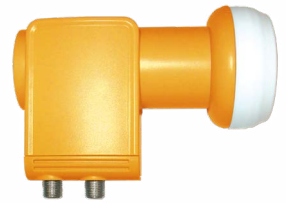
Ø Support	35		45		60	
Dishes	7393	7349	7371	719202	7576	719201
ISD	✓	✓	✓	✓	✓	✓
QSD	✗	✓	✓	✓	✓	✓
Other typical sizes						
600	✓	✓	✓	✓	✗	✗
800	✓	✓	✓	✓	✓	✓
1000	✗	✗	✗	✓	✓	✓
1100	✗	✗	✗	✗	✓	✓
1300	✗	✗	✗	✗	✓	✓



TV DISTRIBUTION SATELLITE DISHES

Ref.	Description		
LNB			
COAXIAL (RF)			
Universal			
746902	Offset LNB Single (Universal) Hh/Vh/HI/VI G 60dB, Grey	●	1/100
747002	Offset LNB Twin (2 Outputs Hh/Vh/HI/VI) G 60dB, Grey	●	1/50
747102	Offset LNB Quattro Hh-Vh-HI-VI G 60dB, Grey	●	1/50
747202	Offset LNB Quad (4 Outputs Hh/Vh/HI/VI) G 60dB, Grey	●	1/50
7475	Offset LNB Single (Universal) Hh/Vh/HI/VI G 60dB	●	1/100
747701	Offset LNB Quattro Hh-Vh-HI-VI G 60dB	●	1/30
747802	Offset LNB Twin (2 Outputs Hh/Vh/HI/VI) G 60dB	●	1/30
761001	Offset LNB Quad (4 Outputs Hh/Vh/HI/VI) G 60dB	●	1/30
761301	Offset LNB Octo (8 Outputs Hh/Vh/HI/VI) G 60dB, Grey	●	1/30
WideBand			
747402	WideBand LNB (2 Outputs H-V) G 57dB for Overlight solution	●	1/50
ACCESSORIES			
4163	Outdoor Case Grey Large Model Dimensions: External 136x127x45mm Internal 125x97x35mm	●	1/5
732150	DC Cable "F"- "Jack" Female 0,4m		1
7450	Current Injector 10...2150MHz 1...24Vdc-1.5A		1/20
7485	Line Amplifier 1i/1o "F": UHF/SAT[dc] G -2.5/20dB Vo 112.5dBμV		1/10
Ref.	Description		
MULTI-SATELLITE MOUNTS FOR QSD SERIES			
790901	Multi-feed Support Up to 4 SAT, QSD Dishes Includes: Rail (up to 20°) + 1 LNB Support (Ref.790902)		1/10
790902	LNB Support for QSD Dishes		1/10

Televes



▲ 747402

LNB Wideband

It captures the entire frequency spectrum of a satellite and transmits it through two outputs (V-H) in a frequency range between 290 and 2340 MHz.



▲ 7475



▲ 747701



▲ 747802



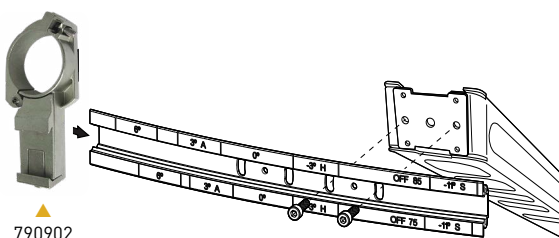
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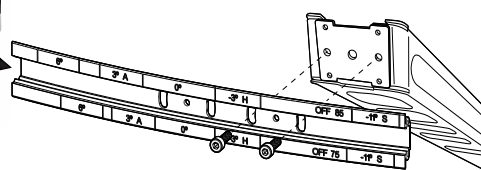
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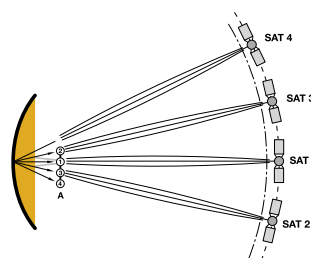
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▲ 790902



▲ 790901





TV DISTRIBUTION MECHANICAL ACCESSORIES

Ref.	Description		
MASTS			
SCREW MOUNTING			
Zinc+RCP			
3010	Mast Zinc+RCP 3m x Ø 45mm x Thickness 2mm	●	1
FIXING ACCESSORIES			
4361	Guy Wire Mounting Kit Ø 45mm		1/5
Ref.	Description		
SUPPORTS FOR ANTENNAS			
"L" TYPE			
Zinc+RCP			
7349	"L" Bracket Zinc+RCP Wall Mount 380x350mm / Ø 45mm x Thickness 1.5mm	●	6
7371	"L" Bracket Zinc+RCP Wall Mount 500x450mm / Ø 45mm x Thickness 2mm	●	5
7393	"L" Bracket Zinc+RCP Wall Mount 284x194mm / Ø 35mm x Thickness 1.5mm	●	10
FLOOR MOUNT			
Zinc+RCP			
7576	"T" Bracket Zinc+RCP Ground Mount 750x200mm / Ø 60mm x Thickness 2.9mm	●	1
"Y" TYPE FOR WALL AND FLOOR			
Galvanized			
719201	"Y" Bracket Galvanized Wall/Ground Mount 551x439mm or 620x247mm / Ø 60mm x Thickness 1.5mm	●	5
719202	"Y" Bracket Galvanized Wall/Ground Mount 728x473mm or 720x481mm / Ø 45mm x Thickness 1.5mm	●	1
Ref.	Description		
STEEL CABLES			
2043	Galvanized Steel Wire Ø 2mm		100
3034	Galvanized Steel Wire Ø 4mm		100
3059	Galvanized Steel Wire Ø 5mm		100
306001	Galvanized Steel Wire Ø 6mm		200



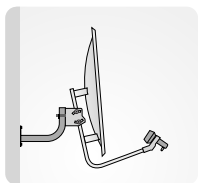
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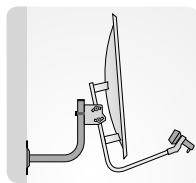
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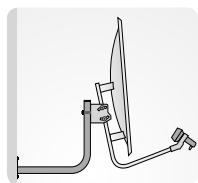
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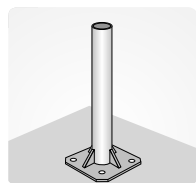
▲ 7393



▲ 7349



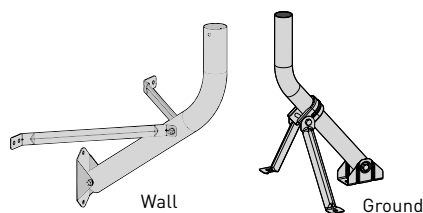
▲ 7371



▲ 7576

Galvanized brackets

Ref.	Wall mount	Ground mount
719201	551 x 439 mm	620 x 247 mm
719202	728 x 473 mm	720 x 481 mm

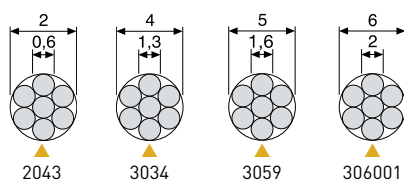


▲ 7576



▲ 719201

Galvanized steel wires (mm)



▲ 2043

▲ 3034

▲ 3059

▲ 306001



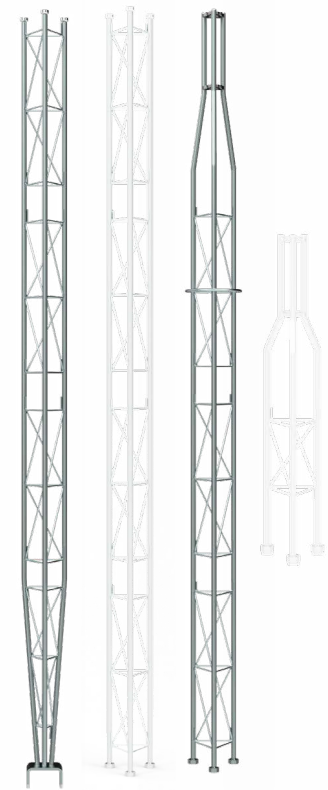


TV DISTRIBUTION TOWERS

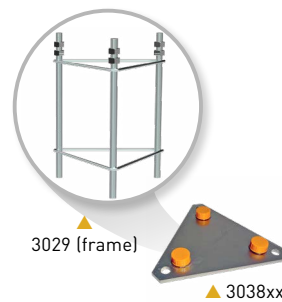
Ref.	Description		
FOR COMMON USE			
PACK TOWER			
306501	"Pack" Tower Galvanized+Orange 2.2m (Mast and Accessories included)	●	1
180 SE TOWER			
Zinc + RCP			
3014	Upper Section 180 SE Tower Zinc+RCP 1.25m (mast Ømax 46mm)	●	1
3015	Upper Section 180 SE Tower Zinc+RCP 2.5m, with Wire Ring (mast Ømax 46mm)	●	1
3017	Middle Section 180 SE Tower Zinc+RCP 2.5m	●	1
Accessories			
3019	Fixed Embedded Base 180 SE Tower Zinc+RCP	●	1
3020	Fixed Bolting Base 180 SE Tower Zinc+RCP	●	1
Ref.	Description		
MULTIFUNCTION			
180 TOWER			
Zinc + RCP			
3021	Upper Section 180 Tower Zinc+RCP 1m (mast Ømax 46mm)	●	1
3031	Middle Section 180 Tower Zinc+RCP 3m	●	1
3032	Upper Section 180 Tower Zinc+RCP 3m (mast Ømax 46mm)	●	1
3037	Lower Section Pivoting 180 Tower Zinc+RCP 3m	●	1
Zinc + Painting			
★ 302102	Upper Section 180 Tower Zinc+White 1m (mast Ømax 46mm)	○	1
303102	Middle Section 180 Tower Zinc+White 3m	○	1
303202	Upper Section 180 Tower Zinc+White 3m (mast Ømax 46mm)	○	1
★ 303702	Lower Section Pivoting 180 Tower Zinc+White 3m	○	1
Hot-Dip Galvanizing			
303101	Middle Section 180 Tower H.D.G. 3m	●	1
303201	Upper Section 180 Tower HDG 3m (mast Ømax 46mm)	●	1
303701	Lower Section Pivoting 180 Tower HDG 3m	●	1
Hot-Dip Galvanizing + Painting			
303103	Middle Section 180 Tower HDG+White 3m	○	1
303203	Upper Section 180 Tower HDG+White 3m (mast Ømax 46mm)	○	1
Accessories			
3029	Embedded Frame 180 Tower Zinc+RPR for Fixed Base (Ref. 3038xx)	●	1
3034	Galvanized Steel Wire Ø 4mm		100
3038	Fixed Bolting/Embedded (with frame) Base 180 Tower Zinc+RCP	●	1
303801	Fixed Bolting/Embedded (with frame) Base 180 Tower HDG	●	1
303802	Fixed Bolting/Embedded (with frame) Base 180 Tower Zinc+White	○	1
303803	Fixed Bolting/Embedded (with frame) Base 180 Tower HDG+White	○	1
3048	Pivoting Embedded Base 180 Tower Zinc+ RCP	●	1
304801	Pivoting Embedded Base 180 Tower HDG	●	1
3058	Guy Wire Ring 180/360 Tower Zinc+RCP	●	20
305801	Guy Wire Ring 180/360 Tower HDG	●	20



▲ Pack Tower (Ref. 306501)
Compatible with support Ref. 7349.



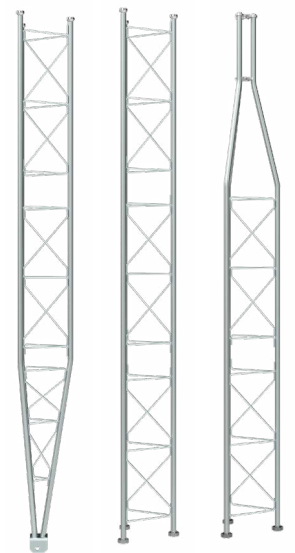
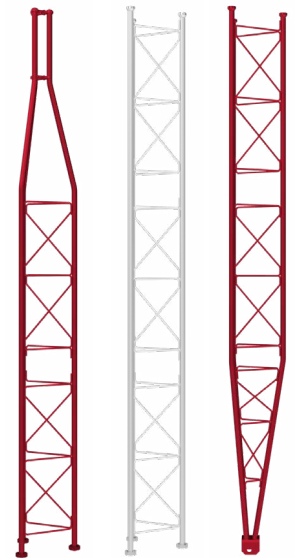
▲ 180 Sections



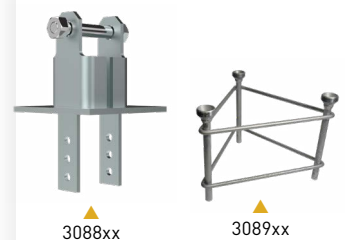


TV DISTRIBUTION TOWERS

Ref.	Description		
MULTIFUNCTION			
360 TOWER			
Zinc + RCP			
3085	Upper Section 360 Tower Zinc+RCP 3m (mast Ømax 52mm)	●	1
3086	Lower Section Pivoting 360 Tower Zinc+RCP 3m	●	1
3087	Middle Section 360 Tower Zinc+RCP 3m	●	1
Zinc + Painting			
308501	Upper Section 360 Tower Zinc+Red 3m (mast Ømax 52mm)	●	1
308502	Upper Section 360 Tower Zinc+White 3m (mast Ømax 52mm)	○	1
308601	Lower Section Pivoting 360 Tower Zinc+Red 3m	●	1
308602	Lower Section Pivoting 360 Tower Zinc+White 3m	○	1
308701	Middle Section 360 Tower Zinc+Red 3m	●	1
308702	Middle Section 360 Tower Zinc+White 3m	○	1
Hot-Dip Galvanizing			
308503	Upper Section 360 Tower HDG 3m (mast Ømax 52mm)	●	1
308603	Lower Section Pivoting 360 Tower HDG 3m	●	1
308703	Middle Section 360 Tower HDG 3m	●	1
Hot-Dip Galvanizing + Painting			
308504	Upper Section 360 Tower HDG+Red 3m (mast Ømax 52mm)	●	1
308604	Lower Section Pivoting 360 Tower HDG+Red 3m	●	1
308605	Lower Section Pivoting 360 Tower HDG+White 3m	○	1
308704	Middle Section 360 Tower HDG+Red 3m	●	1
308705	Middle Section 360 Tower HDG+White 3m	○	1
Accessories			
3058	Guy Wire Ring 180/360 Tower Zinc+RCP	●	20
305801	Guy Wire Ring 180/360 Tower HDG	●	20
3059	Galvanized Steel Wire Ø 5mm		100
308001	Fixed Bolting Base 360 Tower HDG	●	1
3088	Pivoting Embedded Base 360 Tower Zinc+RCP	●	1
308801	Pivoting Embedded Base 360 Tower HDG	●	1
3089	Fixed Embedded Base 360 Tower Zinc+RCP	●	1
308901	Fixed Embedded Base 360 Tower HDG	●	1

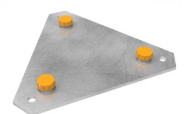


▲ 360 Section



3088xx

3089xx



▲ 308001

Types of finishing



HDG

Hot-Dip Galvanized



Zinc + RCP

Zinc plated + Reactive Coating Process



HDG + Painting

Hot-Dip Galvanized + Lacquered in oven with electrostatic powder of polyester



Zinc + Painting

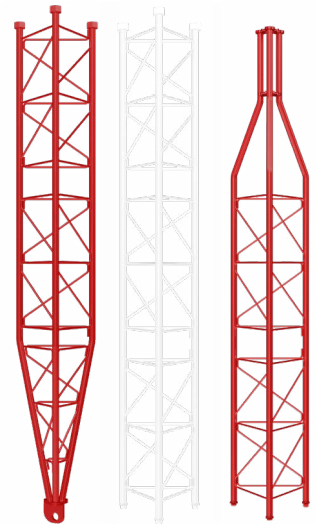
Zinc plated + Lacquered in oven with electrostatic powder of polyester



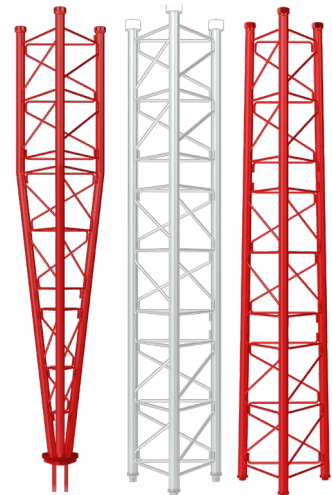
TV DISTRIBUTION TOWERS

Televes

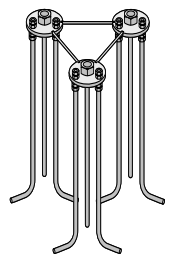
Ref.	Description		
WIND INDUSTRY			
450 TOWER			
Zinc + Painting			
3130	Lower Section Pivoting Reinforced 450 Tower Zinc+Red 3m	●	1
3131	Middle Section 450 Tower Zinc+Red 3m	●	1
313101	Middle Section 450 Tower Zinc+White 3m	○	1
3132	Middle Section Reinforced 450 Tower Zinc+Red 3m	●	1
313201	Middle Section Reinforced 450 Tower Zinc+White 3m	○	1
3133	Upper Section 450 Tower Zinc+Red 3m	●	1
Hot-Dip Galvanizing + Painting			
313001	Lower Section Pivoting Reinforced 450 Tower HDG+Red 3m	●	1
313102	Middle Section 450 Tower HDG+Red 3m	●	1
313103	Middle Section 450 Tower HDG+White 3m	○	1
313202	Middle Section Reinforced 450 Tower HDG+Red 3m	●	1
313203	Middle Section Reinforced 450 Tower HDG+White 3m	○	1
313301	Upper Section 450 Tower HDG+Red 3m (mast Ømax 62mm)	●	1
Accessories			
306001	Galvanized Steel Wire Ø 6mm		200
312901	Surface Plate 450/550 Tower for Pivoting Base (Refs. 3134xx & 3142xx) Zinc+RCP	●	1
312902	Surface Plate 450/550 Tower for Pivoting Base (Refs. 3134xx & 3142xx) HDG	●	1
3134	Pivoting Embedded/Bolting (with plate) Base 450 Tower Zinc+Red	●	1
313401	Pivoting Embedded/Bolting (with plate) Base 450 Tower H.D.G.+Red	●	1
313501	Fixed Embedded Base 450 Tower Zinc+RCP	●	1
313502	Fixed Embedded Base 450 Tower HDG	●	1
3144	Guy Wire Ring 450/550 Tower Zinc+RCP	●	1
314401	Guy Wire Ring 450/550 Tower HDG	●	1
550 TOWER			
Zinc + Painting			
313901	Lower Section Pivoting 550 Tower Zinc+Red 3m	●	1
3140	Middle Section 550 Tower Zinc+Red 3m	●	1
314001	Middle Section 550 Tower Zinc+White 3m	○	1
3141	Transition Section 550 to 450 Tower Zinc+Red 3m	●	1
Hot-Dip Galvanizing + Painting			
313902	Lower Section Pivoting 550 Tower HDG+Red 3m	●	1
314002	Middle Section 550 Tower HDG+Red 3m	●	1
314003	Middle Section 550 Tower HDG+White 3m	○	1
314101	Transition Section 550 to 450 Tower HDG+Red 3m	●	1
Accessories			
306001	Galvanized Steel Wire Ø 6mm		200
312901	Surface Plate 450/550 Tower for Pivoting Base (Refs. 3134xx & 3142xx) Zinc+RCP	●	1
312902	Surface Plate 450/550 Tower for Pivoting Base (Refs. 3134xx & 3142xx) HDG	●	1
3142	Pivoting Embedded/Bolting (with plate) Base 550 Tower Zinc+Red	●	1
314201	Pivoting Embedded/Bolting (with plate) Base 550/550XL Tower HDG+Red	●	1
3143	Fixed Embedded Base 550 Tower Zinc+RCP	●	1
314301	Fixed Embedded Base 550 Tower HDG	●	1
3144	Guy Wire Ring 450/550 Tower Zinc+RCP	●	1
314401	Guy Wire Ring 450/550 Tower HDG	●	1



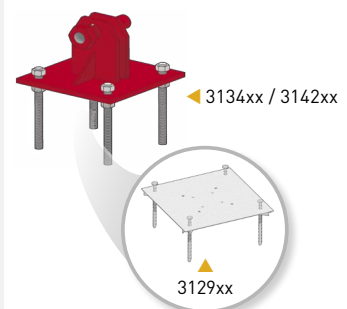
▲ 450 Section



▲ 550 Section



▲ 3135xx / 3143xx



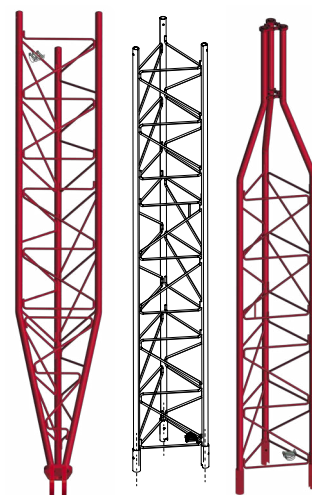
◀ 3134xx / 3142xx

▲ 3129xx

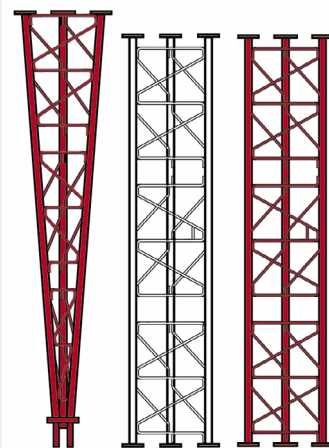


TV DISTRIBUTION TOWERS

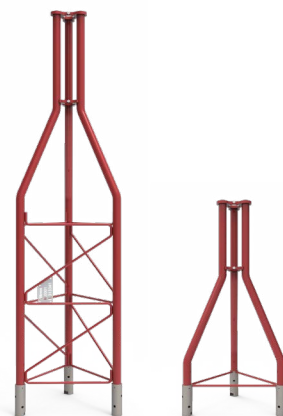
Ref.	Description		
WIND INDUSTRY			
450 XL TOWER			
Hot-Dip Galvanizing + Painting			
313011	Lower Section Pivoting Reinforced 450XL Tower HDG+Red 3m	●	1
313112	Middle Section 450XL Tower HDG+Red 3m	●	1
313113	Middle Section 450XL Tower HDG+White 3m	○	1
313212	Middle Section Reinforced 450XL Tower HDG+Red 3m	●	1
313213	Middle Section Reinforced 450XL Tower HDG+White 3m	○	1
313311	Upper Section 450XL Tower HDG+Red 3m (mast Ømax 62mm)	●	1
313321	Upper Section 450XL Tower HDG+Red 1m (mast Ømax 62mm)	●	1
313331	Top Mast Holder 450XL Tower HDG+Red 0.5m (mast Ømax 62mm)	●	1
313341	Upper Section 450XL Tower HDG+Red 2m (mast Ømax 62mm)	●	1
Accessories			
312911	Surface Plate 450XL/550XL/550ULTRA Tower for Pivoting Base (Refs. 313412 & 314201/10) HDG	●	1
313412	Pivoting Embedded/Bolting (with plate) Base 450XL Tower HDG+Red	●	1
3144	Guy Wire Ring 450/550 Tower Zinc+RCP	●	1
314401	Guy Wire Ring 450/550 Tower HDG	●	1
314502	Buried Plate 450XL/550XL Tower with Guy Wire Ring HDG 1x1m	●	1
314512	Buried Plate 450XL/550XL Tower with Guy Wire Ring HDG 1.5x1.5m	●	1
314550	Climbing Protection Plate 450XL Tower HDG (3 units)	●	1
550 XL TOWER			
Hot-Dip Galvanizing + Painting			
313820	Upper Section 550XL Reinforced Tower HDG+Red 3m (mast Ømax 62mm)	●	1
313921	Lower Section Pivoting Reinforced 550XL Tower HDG+Red 3m	●	1
314020	Middle Section Reinforced 550XL Tower HDG+Red 3m	●	1
314021	Middle Section Reinforced 550XL Tower HDG+White 3m	○	1
Accessories			
312911	Surface Plate 450XL/550XL/550ULTRA Tower for Pivoting Base (Refs. 313412 & 314201/10) HDG	●	1
314201	Pivoting Embedded/Bolting (with plate) Base 550/550XL Tower HDG+Red	●	1
3144	Guy Wire Ring 450/550 Tower Zinc+RCP	●	1
314401	Guy Wire Ring 450/550 Tower HDG	●	1
314502	Buried Plate 450XL/550XL Tower with Guy Wire Ring HDG 1x1m	●	1
314512	Buried Plate 450XL/550XL Tower with Guy Wire Ring HDG 1.5x1.5m	●	1
550 ULTRA TOWER			
Hot-Dip Galvanizing + Painting			
313810	Top Mast Holder 550ULTRA Reinforced Tower HDG+Red 0.25m (mast Ømax 62mm)	●	1
313911	Lower Section Pivoting 550ULTRA Reinforced Tower HDG+Red 3m	●	1
314010	Middle Section 550ULTRA Reinforced Tower HDG+Red 3m	●	1
314011	Middle Section 550ULTRA Reinforced Tower HDG+White 3m	○	1
Accessories			
312911	Surface Plate 450XL/550XL/550ULTRA Tower for Pivoting Base (Refs. 313412 & 314201/10) HDG	●	1
314210	Pivoting Embedded Base 550ULTRA Reinforced Tower HDG+Red	●	1
314401	Guy Wire Ring 450/550 Tower HDG	●	1



▲ 450XL/550XL Sections Reinforced



▲ 550 ULTRA Sections Reinforced



▲ 313341

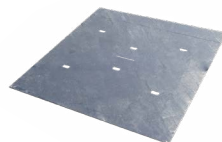
▲ 313321



▲ 313331



▲ 314550
(Tower not included)



▲ 314512





TV DISTRIBUTION FILTERING AND AMPLIFICATION

Ref.	Description		
LTE FILTERS			
MICROCAVITIES			
403302	Very High Rejection LTE/4G Microcavities Filter (VHR) "F" 5...782MHz VHF/UHF (Ch59) Selective, Indoor	LTE790	1/14
EASYF FORMAT			
405202	High Rejection LTE/5G Filter (HR) "EasyF" 47...694MHz VHF/UHF (Ch48) Outdoor	LTE700	1/10
405203	High Rejection LTE/5G Filter (HR) "EasyF" 47...694MHz VHF/UHF (Ch48) Outdoor (DC Pass)	LTE700	1/10
405220	Very High Rejection LTE/5G Filter (VHR) "EasyF" 47...694MHz VHF/UHF (Ch48) Outdoor (DC Pass)	LTE700	1/10
PLUG-IN FORMAT			
F connector			
403101	Medium Rejection LTE/4G Filter (MR) "F" 470...774MHz UHF (Ch21-58) Indoor	LTE790	10/50
403201	Medium Rejection LTE/5G Filter (MR) "F" 47...694MHz VHF/UHF (Ch48), Indoor (DC Pass)	LTE700	1/10/100
403220	High Rejection LTE/5G Filter (HR) "F" 47...694MHz VHF/UHF (Ch48) Indoor	LTE700	1/10/50
IEC connector			
403210	High Rejection LTE/5G Filter (HR) "IEC" 47...694MHz VHF/UHF (Ch48) Indoor	LTE700	1/10/50
403211	High Rejection LTE/5G Filter (HR) "IEC" 47...694MHz VHF/UHF (Ch48) Indoor (DC Pass)	LTE700	1/10/50
ACCESSORIES			
4163	Outdoor Case Grey Large Model Dimensions: External 136x127x45mm Internal 125x97x35mm		1/5

Ref.	Description		
COMBINERS			
MATV (TERRESTRIAL)			
404010	Mast Triplexer 3i/1o "EasyF": BI/FM-BIII/DAB-UHF[dc]	LTE790	1/10
404011	Mast Triplexer 3i/1o "EasyF": BI/FM-BIII/DAB-UHF[dc], Outdoor Black	LTE790	1/10
404110	Mast Triplexer 3i/1o "EasyF": VHF-UHF[dc]-UHF	LTE790	1/10
SMATV (TERRESTRIAL + SATELLITE)			
740710	Double Combiner (47...790/950...2400MHz[dc]) 3i/2o "F": SAT1-MATV-SAT2 / SAT1+MATV-SAT2+MATV	LTE790	1/10
745210	Combiner MATV-SAT 2i/1o "F": 47..790-950..2400MHz[dc]	LTE790	1/10
745220	Mini-Combiner MATV-SAT 2i/1o "F": 47..790-950..2400MHz[dc]	LTE790	10
ACCESSORIES			
4163	Outdoor Case Grey Large Model Dimensions: External 136x127x45mm Internal 125x97x35mm		1/5
417801	Outdoor Case Black Model for Mini Series Dimensions: External 88x78x39mm Internal 57x47x13mm		1/10

Televes



▲ Mini-mixer (745220)
57 x 47 x 13 mm



▲ 404010



▲ 740710



▲ 745210



▲ 4163

LTE FILTERS

Attenuate the LTE (4G/5G) signals passing through the antenna towards active devices susceptible of being affected by them.



"EasyF" model



Plug-in model
("F" or "IEC" connection)



**LTE ADAPTATION,
All solutions for all cases**



TV DISTRIBUTION FILTERING AND AMPLIFICATION

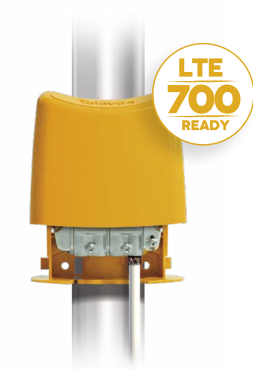
Ref.	Description		
MAST AMPLIFIERS			
SMARTKOM: INTELLIGENT AMPLIFICATION			
531911	SmartKom Intelligent Mast Amplifier with Autoprogramming 4i/1o "EasyF": 3x(VHF/UHF)[dc]-FMmix G 45-[-1]dB Vo 85dBμV. Domestic Power Supply 2i/1o "F" 12V-800mA included, with Bluetooth® antenna	LTE700	○ 1
NANOKOM SERIES			
Terrestrial			
561721	NanoKom Mast Amplifier 3i/1o "EasyF": UHF[dc]-UHF-VHFmix G 28-28- [-1.5]dB Vo 108dBμV 12...24V Powering (Switchable DC Pass)	LTE700	● 1/10
561821	NanoKom Mast Amplifier 3i/1o "EasyF": BIII-UHF[dc]-FMmix G 18-28- [-1.5]dB Vo 106/108dBμV w/USOS 12...24V Powering (Switchable DC Pass)	LTE700	● 1/10
Terrestrial and satellite			
561421	NanoKom Mast Amplifier 3i/1o "EasyF": UHF-UHF[dc]-SATmix[dc] G 28-28- [-2.5]dB Vo 108dBμV 12...24V Powering (Switchable DC Pass)	LTE700	● 1/10
561521	NanoKom Mast Amplifier 3i/1o "EasyF": BIII/UHF[dc]-FMmix-SATmix[dc] G 18/28- [-1.5] - [-2.5]dB Vo 106/108dBμV w/USOS 12...24V Powering (Switchable DC Pass)	LTE700	● 1/10
561621	NanoKom Mast Amplifier 3i/1o "EasyF": UHF[dc]-VHFmix-SATmix[dc] G 24- [-1,5] - [-2,5]dB Vo 104dBμV w/USOS 12...24V Powering (Switchable DC Pass)	LTE700	● 1/10
DOMESTIC POWER SUPPLY UNITS			
PICOKOM SERIES			
579401	PicoKom Domestic Power Supply Unit 1i/2o "EasyF": 5...2400MHz 12V-200mA		1/10
5796	PicoKom Domestic Power Supply Unit 1i/1o "EasyF" SATmix: 5...2400MHz 12V-220mA		1/10
F-CONNECTOR SERIES			
5501	Domestic Power Supply Unit 1i/2o "F": 5...862MHz 12V-220mA (UK Plug)		1
550210	Domestic Power Supply Unit 2i/1o "F": 47...862/950...2150MHz 12V-800mA, with Bluetooth® (for SmartKom)		1
KITS: MAST AMPLIFIER WITH POWER SUPPLY			
NANOKOM SERIES			
Terrestrial and satellite			
567810	NanoKom Mast Amplifier 3i/1o "EasyF": UHF[dc]-VHFmix-SATmix[dc] with USOS + PicoKom PSU 1i/2o "EasyF" 12V-200mA (Refs.561621+579401)	LTE700	● 1
F-CONNECTOR SERIES			
560202	Mast Amplifier 1i/1o "F": UHF + Domest. PSU 1i/2o "F" 12V-220mA (Ref. 560210 & 5501) Black	LTE790	● 1



▲ Domestic PSU: PicoKom series
90 x 68 x 28 mm



▲ Kit 560202
(Mast amplifier + Domestic PSU)



▲ Nanokom Series
90 x 80 x 38 mm



▲ High-gain Mast Amplifier
120 x 130 x 40 mm



Dimensions:
134 x 125 x 41 mm

Compact and intelligent amplifier with digital channel processing that allows automatic programming and level adjustment simply by pressing a button.

- Filtering, mixing, amplification and level balancing in a single device
- High channel selectivity
- Remote powering through its coaxial output connector (domestic power supply unit included)
- Manual configuration via Bluetooth with a smartphone (ASuite)



TV DISTRIBUTION FILTERING AND AMPLIFICATION

Ref.	Description		
DOMESTIC AMPLIFIERS			
PICOKOM SERIES			
MATV (terrestrial)			
560521	PicoKom Domestic Amplifier 1i/1o "EasyF": 47...694MHz G 14/20dB Vo 102/105dBµV Auto-Adjustment + Preamp.Pow. 12V-150mA	LTE700	1/10
560522	PicoKom Domestic Amplifier 1i/2o "EasyF": 47...694MHz G 10/16dB Vo 98/101dBµV Auto-Adjustment + Preamp.Pow. 12V-150mA	LTE700	1/10
560523	PicoKom Domestic Amplifier 1i/(2o+TV) "EasyF": 47...694MHz G 10/16dB Vo 98/101dBµV Auto-Adjustment + Preamp.Pow. 12V-150mA	LTE700	1/10
IEC AND F CONNECTOR SERIES			
MATV (terrestrial)			
545720	Domestic Amplifier 1i/(2o+TV) "IEC": 47...694MHz G 20dB Vo 110dBµV + Output to a TV Outlet G 12dB + Preamp.Pow. 12V-100mA (Blister T1)	LTE700	1/8
545901	Auto-LTE Domestic Amplifier 1i/(2o+TV) "F": 47...694/790MHz G 20dB Vo 101dBµV w/USOS + Output to a TV Outlet G 11dB + Preamplifier Powering 12V-100mA	AUTOLTE	1
552120	Domestic Amplifier 1i/2o "IEC": 47...694MHz G 22dB Vo 104dBµV (Blister T1)	LTE700	1/8
552220	Domestic Amplifier 1i/(2o+TV) "F": 47...694MHz G 20dB Vo 106dBµV + Output to a TV Outlet G 12dB (Blister T1)	LTE700	1/8
552320	Domestic Amplifier 1i/(4o+TV) "F": 47...694MHz G 16dB Vo 102dBµV + Output to a TV Outlet G 12dB (Blister T1)	LTE700	1/8
552740	Domestic Amplifier 1i/1o "IEC": 47...790MHz G 25dB Vo 112dBµV (Blister T1)	LTE790	1/8
552840	Domestic Amplifier 1i/(2o+TV) "IEC": 47...790MHz G 20dB Vo 106dBµV + Output to a TV Outlet G 12dB (Blister T1)	LTE790	1/8
552940	Domestic Amplifier 1i/(4o+TV) "IEC": 47...790MHz G 16dB Vo 102dBµV + Output to a TV Outlet G 11dB (Blister T1)	LTE790	1/8
553120	Domestic Amplifier 1i/6o "F": 47...694MHz G 14dB Vo 95dBµV (Blister T1)	LTE700	1/8

easyF

LTE
700
READY



Dimensions:
90 x 68 x 28 mm

Domestic amplifiers of pleasing design and limited size, with EasyF connection system. Equipped with automatic gain regulation and LTE700 filtering.



▲ Domestic Amplifier:
"IEC" Connector
145 x 35 x 45 mm



▲ Domestic Amplifier:
"F" Connector
145 x 35 x 45 mm



TV DISTRIBUTION FILTERING AND AMPLIFICATION

Ref.	Description		
LAUNCH AMPLIFIERS			
MINIKOM EASYF SERIES			
MATV (terrestrial)			
562324	MiniKom Amplifier MATV 5i/1o "EasyF": FM-VHF-UHF-21...35-39..48 G 15-(24 34)-(26 36)-(24 34)-(25 35)dB Vo 113-114-116-116-116dBµV Preamp.Powering 12V-200mA (Switchable DC Pass)	LTE700	1
562422	MiniKom Amplifier MATV 4i/1o "EasyF": FM-VHF-UHF-UHF G 15-(24 34)-(26 36)-(26 36)dB Vo 113-114-116-116dBµV Preamplif.Powering 12V-200mA (Switchable DC Pass)	LTE700	1
562522	MiniKom Amplifier MATV 3i/1o "EasyF": FM-VHF-UHF G 15-(24 34)-(26 36)dB Vo 113-114-116dBµV Preamplif.Powering 12V-200mA (Switchable DC Pass)	LTE700	1
SMATV (terrestrial + satellite)			
562621	MiniKom Amplifier MATV+SAT 4i/1o "EasyF": FM-VHF-UHF-SAT G 15-(21 31)-(27 37)-35dB Vo 114-114-115-122dBµV Preamplif.Powering 12V-200mA Switchable DC Pass	LTE700	1
MINIKOM F SERIES			
MATV (terrestrial)			
537302	MiniKom Amplifier MATV 1i/1o "F": 47...454/470...862MHz G [20 30]/[28 38]dB Vo 113/116dBµV		1
539201	MiniKom Amplifier MATV 4i/1o "F": FM-BIII/DAB-UHF-UHF G 15-[20 30]-[27 37]-[27 37]dB Vo 114-114-117-117dBµV 12V-70mA Preamp.Pow.		1
SMATV (terrestrial + satellite)			
5363	MiniKom Amplifier MATV + SAT 2i/1o "F": (47...862)-(950...2150)MHz G -1.5-35..45dB Vo(SAT) 124dBµV		1
539620	MiniKom Amplifier MATV + SAT 4i/1o "F": FM-BIII-UHF-FI G 17-35-39-35..41dB Vo 110-113-114-124dBµV 12V-70mA Preamplif.Pow.	LTE700	1
SMATV/CATV (return path + terrestrial + satellite)			
5317	MiniKom Amplifier Return Path + MATV + 2SAT 2i/2o "F": [5..30/47..862/950..2150)-(950..2150)MHz G (for 2 outputs) -5/30..33/33..38dB Vo (MATV/SAT) 118/124dBµV		1
531710	MiniKom Amplifier Return Path + MATV + SAT 1i/1o "F": 5..30/47..862/950..2150MHz G -5/35/33..38dB Vo (MATV/SAT) 120/123dBµV		1
DTKOM SERIES			
MATV (terrestrial)			
5338	DTKom Amplifier MATV 1i/1o "F": 47...862MHz G [40 50]dB Vo 123dBµV (Remote Powering 12V-50mA)		1
534020	DTKom Amplifier MATV 3i/1o "F": FM-BIII-UHF G 25-(32 42)-(32 42)dB Vo 123dBµV 12V-50mA Preamplif. Powering	LTE700	1
534120	DTKom Amplifier MATV 5i/1o "F": FM-BIII-21...36-38...48-UHF G 25-(32 42)-(31 41)-(31 41)-(32 42)dB Vo 123dBµV 12V-50mA Preamplif. Powering	LTE700	1
534121	DTKom Amplifier MATV 5i/1o "F": FM-BIII-21...32-36..48-UHF G 25-(32 42)-(31 41)-(31 41)-(32 42)dB Vo 123dBµV 12V-50mA Preamplif. Powering	LTE700	1
SMATV/CATV (return path + terrestrial + satellite)			
533501	DTKom Amplifier Return Path + MATV + SAT 1i/1o "F": 5..65/87..862/950...2150MHz G [-4 28]/[38 50]/42dB Vo 116/123/123dBµV		1
5337	DTKom Amplifier Return Path + MATV + 2SAT 2i/2o "F": [5..65/87..862/950..2150MHz) - (950..2150MHz) G (for 2 outputs) [-5 27]/[30 40]/42dB Vo 115/120/120dBµV		1
CATV (return path + terrestrial)			
451203	DTKom Amplifier Return Path + MATV 1i/1o "F": 5..65/87...1006MHz G [-3 28]/[30 40]dB Vo 118/129dBµV		1

MINIKOM EasyF SERIES



▲ Amplifiers

Dimensions: 100 x 100 x 50 mm

High efficiency launch / splitband amplifiers, with selectable gain and LTE rejection.

uk.televest.com/minikom



▲ Amplifiers:

MiniKom "F" Series
185 x 112 x 70 mm



▲ Amplifiers: DTKom Series

284 x 140 x 50 mm

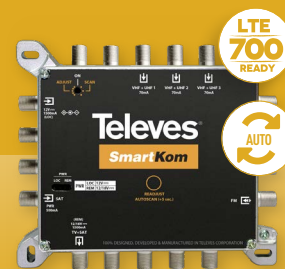


TV DISTRIBUTION FILTERING AND AMPLIFICATION

Ref.	Description		
PROGRAMMABLE AMPLIFIERS			
SMARTKOM			
531920	dCSS SmartKom InAtelligent Amplifier with Autoprogramming 5i/1o "F": 3x(VHF/UHF)[dc]-Fmmix-Flmix[dc] G 45-(-1)-(-2)dB Vo 85dBμV	LTE700	1
AVANT X			
Avant X Basic			
532103	Avant X Basic with anti-LTE Filter: Programmable Amplifier with Digital Filtering 5i/1o "F", 2 selectable modes: FM-4x(VHF/UHF) ou FM-DAB-3xUHF G 29-75 or 29-72-75dB Vo 122-122 or 122-119-122dBμV	TFORCE LTE700	1
532113	Avant X Basic-Sat with anti-LTE Filter: Programmable Amplifier with Digital Filtering 6i/2o "F", 2 selectable modes: FM-4x(VHF/UHF)-SAT or FM-DAB-3xUHF-SAT G 25-71-41 or 25-68-71-41dB Vo 118-118-123 or 118-115-118-123dBμV	TFORCE LTE700	1
Avant X Pro			
532123	Avant X Pro with anti-LTE Filter: Programmable Amplifier with Digital Filtering 5i/1o "F", 2 selectable modes: FM-4x(VHF/UHF) ou FM-DAB-3xUHF G 29-75 or 29-72-75dB Vo 122-122 or 122-119-122dBμV Autoprogramming, Monitoring and Report PDF	TFORCE LTE700	1
532133	Avant X Pro-Sat with anti-LTE Filter: Programmable Amplifier with Digital Filtering 6i/2o "F", 2 modes: FM-4x(VHF/UHF)-SAT or FM-DAB-3xUHF-SAT G 25-71-41 or 25-68-71-41dB Vo 118-118-123 or 118-115-118-123dBμV Autoprogramming, Monitoring and PDF Report	TFORCE LTE700	1
POWER SUPPLY UNITS			
994903	Avant X Power Supply Unit 12V-1.5A		1

Televes

SMARTKOM



Compact and intelligent amplifier with digital channel processing that allows automatic programming and level adjustment simply by pressing a button. **It can be powered remotely** through the coaxial distribution (output connector) using a domestic PSU or with the MSW distribution trunk lines already powered. It also allows local powering with an external power supply unit (Ref. 732101 recommended).

In addition, thanks to the built-in Bluetooth antenna, manual programming of the amplifier can be done wirelessly using a smartphone or tablet, with the ASuite application.

AVANT X PROGRAMMABLE HEADEND AMPLIFIER DIGITAL FILTERING AND PROCESSING

A NEW EVOLUTIVE STAGE

DIGITAL PROCESSING TECHNOLOGY IMPLEMENTED ON TERRESTRIAL TV SIGNALS



Internal filtering against LTE signals (4G/5G)

Compatible with **DVB-T** **DVB-T2**

TFORCE TECHNOLOGY Terrestrial signal level always stable and adapted to its optimum value



UP TO 32 INDIVIDUALLY PROGRAMMABLE FILTERS

Single channel digital filtering, even for adjacent channels



DIGITAL PROCESSING OF CHANNELS

Output channels can be frequency shifted



AUTOMATIC SIGNAL ADJUSTMENT IN EACH FILTER (AGC)

And output signal manual regulation



UHF/VHF DIGITAL FILTERS WITH HIGH SELECTIVITY
30dB rejection (@ 1MHz)

CHOOSE THE PROGRAMMING MODE YOU WISH...



COMPATIBLE WITH UNIVERSAL PROGRAMMER (Ref.7234, not included)



A SIMPLE AND INTUITIVE APPLICATION FOR ANDROID, PC AND MAC
USB connection using a OTG cable (included in all the Avant X models)



AUTOMATIC PROGRAMMING WITH A SINGLE KEY! (ONLY ON PRO MODEL)



TV DISTRIBUTION FILTERING AND AMPLIFICATION

Ref.	Description		
SINGLE-CHANNEL AMPLIFICATION			
T12 SERIES			
Single-channel amplifiers			
509012	T12 Single Channel Amplifier FM/DAB 87,5...108/174..230MHz G 40/48dB Vo115/115dBµV	LTE700	1
509812	T12 Single Channel Amplifier High Selectivity UHF 470...862MHz G 50dB Vo 125dBµV	LTE700	1
Power supply unit			
549812	T12 Switch-mode Power Supply Unit 60W 24V-2.5A		1
Ref.	Description		
COMPLEMENTS			
ATTENUATORS			
4005	Adjustable Attenuator "F" 0 to 20dB 5...2200MHz DC Pass		1/10
4315	Adjustable Attenuator "IEC" Ø 9.5mm 1 to 25dB VHF/UHF DC Pass (Bag B1)		1/10
FILTERS			
4007	Notch Filter "F" UHF (Ch21-69) 1 Channel & 1 Adjustment		1/10
LINE AMPLIFIERS			
400620	Line Amplifier UHF 1i/1o "F": 470...694MHz G 13dB Vo 98dBµV (Plug-in)	LTE700	1/10
7485	Line Amplifier 1i/1o "F": UHF/SAT[dc] G -2.5/20dB Vo 112.5dBµV		1/10
ELECTRICAL PROTECTION			
494702	Coaxial Atmospheric Surge Arrestor 90V 0...3GHz		1
993810	Earth Bonding Bar 4 Connectors (9x/13x/17x NevoSwitch compatible)		54
993811	Earth Bonding Bar 5 Connectors (5x/9x/13x/17x NevoSwitch compatible)		120
SUPPORTS AND CABINETS			
5069	Lockable Cabinet 648mm (1 PSU + 14 T12/T05 Modules)		1
5071	Wall Mount 498mm (1 PSU + 7 T.0X Modules or 10 T12/T05 Modules)		1
5072	Lockable Cabinet 498mm (1 PSU + 10 Modules T12/T05)		1
5239	Wall Mount 560mm (1 PSU + 8 T.0X Modules or 12 T12/T05 Modules)		1
5301	19" Rack Frame 484mm 5RU (1 PSU + 7 T.0X Modules or 10 T12/T05 Modules)		1
ACCESSORIES			
216810	OTG USB C-microUSB B Cable Male-Male 1m Black for Avant X/6 (Bag B2)		1
4061	Terminal Load "F" 750hm with DC Blocked		10/200
4071	DC Blocker "F"		10
5074	T12 "F" Connector Link Push Fit Type, 40.8mm		10
7234	Universal Programmer T.0X/T05/AVANT		1



▲ 509812



▲ 549812



▲ 5072



▲ 5069



▲ 4071



▲ 4007



▲ 400620



▲ 5301

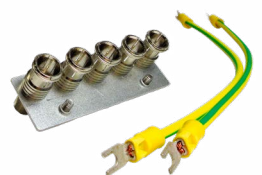
▲ 549812



▲ 4315



▲ 494702



▲ 993811



TV DISTRIBUTION PROCESSING HEADENDS

Ref.	Description	
T.0X SERIES		
TRANSMODULATORS: SATELLITE INPUT (SMATV)		
IP output		
565801	T.0X Streamer DVBS/S2-IP CI (Multicast/Unicast, SPTS) Multiplexer: 3 Transponders(2Sat) or 3 Transponders(1Sat+LoopThru) : 32 IP Streams	1
Digital Terrestrial Output		
563101	T.0X Transmodulator DVBS/S2-COFDM (47...862MHz)	1
563301	T.0X Transmodulator DVBS/S2-COFDM CI (47...862MHz)	1
564201	T.0X Transmodulator DVBS/S2-COFDM CI (47...862MHz) Multiplexer: 3 Transponders(2Sat) :1Ch or 3 Transponders(1Sat+LoopThru) :1Ch	1
564301	T.0X Twin Transmodulator DVBS/S2-COFDM CI (47...862MHz) Multiplexer: 3 Transponders(2Sat) :2Ch or 3 Transponders(1Sat+LoopThru) :2Ch	1
★ 565401	T.0X Transmodulator DVBS/S2X-COFDM/QAM CI Twin (47...862MHz) Multiplexer: 4 Transponders :2C	1
Digital Cable Output		
563001	T.0X Twin Transmodulator DVBS/S2-QAM (47...862MHz)	1
564101	T.0X Transmodulator DVBS/S2-QAM CI (47...862MHz) Multiplexer: 3 Transponders(2Sat) :1Ch or 3 Transponders(1Sat+LoopThru) :1Ch	1
564401	T.0X Twin Transmodulator DVBS/S2-QAM CI (47...862MHz) Multiplexer: 3 Transponders(2Sat) :2Ch or 3 Transponders(1Sat+LoopThru) :2Ch	1
★ 565401	T.0X Transmodulator DVBS/S2X-COFDM/QAM CI Twin (47...862MHz) Multiplexer: 4 Transponders :2C	1
TRANSMODULATORS: DIGITAL TERRESTRIAL INPUT (MATV)		
IP output		
565701	T.0X Streamer DVB-T/T2-IP CI (Multicast/Unicast, SPTS) Multiplexer: 4 Channels (DVB-T/T2) : 32 IP Streams	1
ENCODERS: AUDIO/VIDEO INPUT		
Digital Terrestrial or Cable Output		
563822	T.0X Encoder/Modulator Quad, 4i A/V: CVBS - 1Mux: COFDM/QAM (MPEG2/4)	1
563832	T.0X Encoder/Modulator Twin, 2i: HDMI / Component (YPbPr) - 1Mux: COFDM/QAM (MPEG2/4)	1
566001	T.0X Encoder/Modulator Single 1i: HDMI / Component(YPbPr) / CVBS - 1Mux: COFDM/QAM (MPEG2/4) (Standalone support + PSU 18V included)	1
Digital Terrestrial or Cable Output and IP		
563852	T.0X Encoder/Modulator IP Twin (MPEG2/4), 2 Modes: 2i: HDMI / Component(YPbPr) / CVBS - 1Mux: IP/COFDM/QAM 2i: HDMI / Component(YPbPr) / CVBS / IP - 1Mux: COFDM/QAM	1
ENCODERS: AUDIO/VIDEO INPUT AND IP		
Digital Terrestrial or Cable Output		
563852	T.0X Encoder/Modulator IP Twin (MPEG2/4), 2 Modes: 2i: HDMI / Component(YPbPr) / CVBS - 1Mux: IP/COFDM/QAM 2i: HDMI / Component(YPbPr) / CVBS / IP - 1Mux: COFDM/QAM	1
MODULATORS: AUDIO/VIDEO INPUT		
Analogue Output		
5806	T.0X Twin Modulator Analogue A/V-PAL Stereo (VSB 47...862MHz)	1
A/D CHANNEL PROCESSORS		
564901	T.0X Twin Processor Analogue/Digital Channel (47...862MHz)	1



▲ 5806

T.0X TRANSMODULATOR TWIN



▲ 565401

Transmodulator generating **two COFDM or QAM (Annex A) multiplex** from the multiplexing of the services available in **up to 4 different TV SAT transponders**.

Manageable in an agile and simple way thanks to its **embedded web interface**, which allows access to the multiple configuration functionalities available.



▲ T.0X Streamers

DTT or SAT content generation under IP encapsulation.



▲ T.0X Encoders

Generate your own DTT content in High Definition.



TV DISTRIBUTION PROCESSING HEADENDS

Ref.	Description	
T.OX SERIES		
HEADEND CONTROL		
CDC Modules		
5559	T.OX Headend Management Unit CDC IP	1
555911	T.OX Headend Management Control CDC IP/3G	1
AUXILIARY EQUIPMENT		
Amplifier		
5575	T.OX Amplifier Push-Pull 47...1006MHz G 44dB Vo 126dBμV	1
Power Supply Units		
562802	Power Supply Unit 38.4W 24V-1.6A (T.OX standalone mounting)	1
5629	T.OX Switch-mode Power Supply Unit 120W 24V-5A	1
562910	T.OX Switch-mode Power Supply Unit 60W 24V-2.5A	1
Combiner		
565002	Combiner 7i/1o: 5...1002MHz, 19" Rack Mount, 1RU	2
Supports and enclosures		
5071	Wall Mount 498mm (1 PSU + 7 T.OX Modules or 10 T12/T05 Modules)	1
507203	Lockable Cabinet with Forced Ventilation 448mm (1 PSU + 7 T.OX Modules)	1
507204	Lockable Cabinet with Forced Ventilation 327mm (1 PSU + 4 T.OX Modules)	1
5239	Wall Mount 560mm (1 PSU + 8 T.OX Modules or 12 T12/T05 Modules)	1
5301	19" Rack Frame 484mm 5RU (1 PSU + 7 T.OX Modules or 10 T12/T05 Modules)	1
567401	Standalone Support (1 T.OX Module)	10
Programmer		
7234	Universal Programmer T.OX/T05/AVANT	1
Accessories		
216801	Kit: PC-Module Cable & USB-Serial Adapter. Utilities: TSuite (T.OX, T05)	1
216802	Kit: OTG USB - microUSB B Cable & WiFi Adapter. Utilities: Streamers T.OX WiFi Control	1
4061	Terminal Load "F" 750hm with DC Blocked	10/200
4071	DC Blocker "F"	10
422601	Patch Cable for Powering T.OX from T05 0.4m	1/5
494702	Coaxial Atmospheric Surge Arrestor 90V 0...3GHz	1
5673	T.OX Blank Plate 50mm - 5RU	1



▲ 5559



▲ 507204



▲ 507203
(T.OX units not included)



▲ 216801



▲ 567401



▲ 5239



▲ 565002



▲ 5301



TV DISTRIBUTION OPTICAL FIBER

Ref.	Description	
T.OX SERIES		
OPTICAL TRANSMITTERS		
Forward path TX		
233306	T.OX Optical Transmitter SMATV 1310nm "SC/APC" Po 6dBm w/o Return Path	1
233311	T.OX Optical Transmitter SMATV 1310nm "SC/APC" Po 10dBm w/o Return Path	1
234305	T.OX Optical Transmitter SMATV 1550nm "SC/APC" Po 5dBm w/o Return Path	1
234801	T.OX Optical Transmitter CATV 1310nm "SC/APC" Po 10dBm w/o Return Path RF Automatic Adjustment and Temperature Stability	1
234811	T.OX Optical Transmitter CATV 1550nm "SC/APC" Po 10dBm w/o Return Path RF Automatic Adjustment and Temperature Stability	1
OPTICAL RECEIVERS		
Forward path RX / Return path TX		
2335	T.OX Optical Receiver SMATV 1200...1600nm "SC/APC" w/o Return Path	1
Return path RX		
234901	T.OX Return Path Optical Receiver (5...300MHz) 1270...1650nm "SC/APC", with AGC	1
AUXILIARY EQUIPMENT		
Amplifiers		
234220	T.OX Optical Amplifier 1i/1o: 1550nm "SC/APC" 20dBm (EDFA Technology)	1
234221	T.OX Optical Amplifier / Multiplexer "SC/APC" 19dBm (EDFA Technology) 2i: 1310/1490nm - 1550nm, 1o: 1310/1490/1550nm	1
234228	T.OX Optical Amplifier / Multiplexer "SC/APC" 20dBm (YEDFA Technology) 9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm	1
Power supply units		
562802	Power Supply Unit 38.4W 24V-1.6A (T.OX standalone mounting)	1
5629	T.OX Switch-mode Power Supply Unit 120W 24V-5A	1
562910	T.OX Switch-mode Power Supply Unit 60W 24V-2.5A	1
Splitters		
2337	T.OX Optical Splitter 1260...1650nm "SC/APC" 2W 4dB	1
2339	T.OX Optical Splitter 1260...1650nm "SC/APC" 4W 7dB	1
234401	T.OX Optical Splitter 1260...1650nm "SC/APC" 8W 10dB	1
234501	T.OX Optical Splitter 1260...1650nm "SC/APC" 16W 14dB	1
234601	T.OX Optical Splitter 1260...1650nm "SC/APC" 32W 17dB	1
Multiplexers (WDM)		
234701	T.OX Optical Multiplexer / Demultiplexer 1i/2o "SC/APC": GPON+RF: Data (1310/1490nm) - TV (1550nm)	1
234702	T.OX Optical Multiplexer / Demultiplexer 1i/2o "SC/APC": RFoG: Uplink (1610nm) - Downlink (1550nm)	1
Mounts and housings		
5071	Wall Mount 498mm (1 PSU + 7 T.OX Modules or 10 T12/T05 Modules)	1
507203	Lockable Cabinet with Forced Ventilation 448mm (1 PSU + 7 T.OX Modules)	1
507204	Lockable Cabinet with Forced Ventilation 327mm (1 PSU + 4 T.OX Modules)	1
5239	Wall Mount 560mm (1 PSU + 8 T.OX Modules or 12 T12/T05 Modules)	1
5301	19" Rack Frame 484mm 5RU (1 PSU + 7 T.OX Modules or 10 T12/T05 Modules)	1
Accessories		
4061	Terminal Load "F" 750hm with DC Blocked	10/200
4071	DC Blocker "F"	10
5673	T.OX Blank Plate 50mm - 5RU	1



▲ 234801/234811



▲ 234221 ▲ 234228



▲ 234401 ▲ 234501 ▲ 234601



▲ 234701 ▲ 234702



▼ 5629



▼ 562910



TV DISTRIBUTION OPTICAL FIBER

Ref.	Description	
19" RACK FORMAT		
OPTICAL TRANSMITTERS		
Forward path TX		
769801	Optical Transmitter SMATV 1550nm "SC/APC" Po 5dBm w/o Return Path 19" Rack Mount, 1RU	1
769812	Optical Transmitter CATV 1550nm "SC/APC" Po 6dBm w/o Return Path External modulation and RF Automatic Adjustment (up to 30Km). DOCSIS 3.1 compatible 19" Rack Mount, 1RU	1
769902	Optical Transmitter SMATV 1310nm "SC/APC" Po 6dBm w/o Return Path, 19" Rack Mount, 1RU	1
769903	Optical Transmitter SMATV 1310nm "SC/APC" Po 10dBm w/o Return Path, 19" Rack Mount, 1RU	1
AMPLIFIERS		
769610	Optical Amplifier / Multiplexer "SC/APC" 20dBm (YEDFA Technology) 9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm + Double Power Supply Unit -48Vdc. 19" Rack Mount, 1RU (for OLT)	1
769611	Optical Amplifier / Multiplexer "SC/APC" 20dBm (YEDFA Technology) 33i: 32x1310/1490nm - 1x1550nm, 32o: 32x1310/1490/1550nm + Double Power Supply Unit. 19" Rack Mount, 2RU	1
769612	Optical Amplifier / Multiplexer "SC/APC" 17dBm (YEDFA Technology) 9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm + Double Power Supply Unit -48Vdc. 19" Rack Mount, 1RU (for OLT)	1
★ 769615	Optical Amplifier / Multiplexer "SC/APC" 20dBm (YEDFA Technology) 9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm + Double Power Supply Unit. 19" Rack Mount, 1RU	1
★ 769616	Optical Amplifier / Multiplexer "SC/APC" 17dBm (YEDFA Technology) 9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm + Double Power Supply Unit. 19" Rack Mount, 1RU	1
769620	Optical Amplifier 1i/1o: 1550nm "SC/APC" 20dBm (EDFA Technology) + Double Power Supply Unit. 19" Rack Mount, 1RU	1
769622	Optical Amplifier 1i/8o: 1550nm "SC/APC" 10dBm (EDFA Technology) + Double Power Supply Unit. 19" Rack Mount, 1RU	1
769623	Optical Amplifier 1i/8o: 1550nm "SC/APC" 20dBm (YEDFA Technology) + Double Power Supply Unit. 19" Rack Mount, 1RU	1
769630	Optical Amplifier / Multiplexer "SC/APC" 20dBm (EDFA Technology) 2i:1x1310/1490nm - 1x1550nm, 1o:1310/1490/1550nm + Double Power Supply Unit. 19" Rack Mount, 1RU	1
769631	Optical Amplifier / Multiplexer "SC/APC" 14dBm (EDFA Technology) 5i:4x1310/1490nm - 1x1550nm, 4o:1310/1490/1550nm + Double Power Supply Unit. 19" Rack Mount, 1RU	1
769632	Optical Amplifier / Multiplexer "SC/APC" 10dBm (EDFA Technology) 9i:8x1310/1490nm - 1x1550nm, 8o:1310/1490/1550nm + Double Power Supply Unit. 19" Rack Mount, 1RU	1
STAND-ALONE INSTALLATION (FIBERKOM SERIES)		
OPTICAL TRANSMITTERS		
Forward path Tx		
238201	FiberKom Optical Transmitter SMATV 1310nm "SC/APC" Po 3dBm w/o Return Path (Remote Powering)	1
OPTICAL NODE SOLUTIONS		
NODES		
Without return path (receiver)		
231201	Outdoor Optical Receiver 1200...1600nm "SC/APC" without Return Path with Amplifier 1o: 87...862/950...2150MHz (Local Powering)	1
231220	Outdoor Optical Receiver 1200...1600nm "SC/APC" without Return Path (1 Fiber) with Amplifier 2o: 40...1006MHz, OLC Technology (Local Powering)	1
MINI-NODES (FIBERKOM SERIES)		
With return path (mini-node)		
238001	FiberKom Optical Mini-node 1200...1600nm "SC/APC" Return Path 1310nm (2 Fibers) with Amplifier 87...1220MHz DOCSIS 3.1 Compatible. OLC Technology (Local Powering)	1
238005	FiberKom Optical Mini-node 1550nm "SC/APC" Return Path 1610nm (1 Fiber) with Amplifier 105...1220MHz DOCSIS 3.1 Compatible. OLC Technology (Local Powering)	1
Without return path (mini-receiver)		
238079	FiberKom Optical Mini-receiver 1200...1600nm "SC/APC" without Return Path (1 Fiber) with Amplifier 47...1006MHz, OLC Technology (Local Powering)	1
238101	FiberKom Optical Mini-receiver 1200...1600nm "SC/APC" without Return Path (1 Fiber) with Amplifier 47...1006MHz, OLC Technology (Remote Powering)	1
MICRO-NODES		
Without return path (micro-receiver)		
2311	Domestic Optical Receiver 1200...1600nm "SC/APC" with Amplifier 87...862/950...2400MHz with Automatic Adjustment	1
231110	Domestic Optical Receiver 1200...1600nm "SC/APC" with Amplifier 47...1006MHz, OLC Technology	1
231111	Domestic Optical Receiver 1550nm "SC/APC" with Amplifier 47...1006MHz, OLC Technology	1
ACCESSORIES		
732101	Power Supply Unit 12V-0.8A	1
732150	DC Cable "F"-"Jack" Female 0,4m	1



▲ 769902



▲ 769903



▲ 769632



▲ 238201



▲ Mini-Node: FiberKom Series
185 x 80 x 35 mm



▲ Micro-Node:
145 x 60 x 35 mm



▲ Outdoor Node:
232 x 140 x 90 mm



TV DISTRIBUTION OPTICAL FIBER

Ref.	Description	
TV THROUGH OPTICAL FIBER: OVERLIGHT SERIES (MAX. 64 USERS)		
LNB		
747402	WideBand LNB (2 Outputs H-V) G 57dB for Overlight solution	1/50
AMPLIFIERS		
237561	Overlight WideBand Amplifier 2x2 "F" 1xSat 250...2400MHz G 13dB Vo 118dBμV	1
237562	Overlight WideBand Amplifier 2x2 "F" 1xSat 250...2400MHz G 29dB Vo 118dBμV	1
OPTICAL TRANSMITTERS		
Indoor TX		
237503	Overlight Optical Transmitter CWDM Indoor "SC/APC" 10dBm 64 users 3i: 2x 290...2340MHz(Sat) – RF(Terr.), 1o: 1310nm(Sat+Terr)	1
237504	Overlight Optical Transmitter CWDM Indoor "SC/APC" 9dBm 64 users 3i: 2x 290...2340MHz(Sat) – RF(Terr.), 1o: 1550nm(Sat+Terr)	1
237505	Overlight Optical Transmitter CWDM Indoor "SC/APC" 9dBm 64 users 3i: 2x 290...2340MHz(Sat) – RF(Terr.), 1o: 1570nm(Sat+Terr)	1
★ 237506	Overlight Optical Transmitter CWDM Indoor "SC/APC" 9dBm 64 users 3i: 2x 290...2340MHz(Sat) – RF(Terr.), 1o: 1510nm(Sat+Terr)	1
★ 237507	Overlight Optical Transmitter CWDM Indoor "SC/APC" 9dBm 64 users 3i: 2x 290...2340MHz(Sat) – RF(Terr.), 1o: 1530nm(Sat+Terr)	1
Outdoor TX		
237513	Overlight Optical Transmitter CWDM Outdoor "FC/APC" 10dBm 64 users 3i: 2x 290...2340MHz(Sat) – RF(Terr.), 1o: 1310nm(Sat+Terr)	1
237514	Overlight Optical Transmitter CWDM Outdoor "FC/APC" 9dBm 64 users 3i: 2x 290...2340MHz(Sat) – RF(Terr.), 1o: 1550nm(Sat+Terr)	1
237515	Overlight Optical Transmitter CWDM Outdoor "FC/APC" 9dBm 64 users 3i: 2x 290...2340MHz(Sat) – RF(Terr.), 1o: 1570nm(Sat+Terr)	1
★ 237516	Overlight Optical Transmitter CWDM Outdoor "FC/APC" 9dBm 64 users 3i: 2x 290...2340MHz(Sat) – RF(Terr.), 1o: 1510nm(Sat+Terr)	1
★ 237517	Overlight Optical Transmitter CWDM Outdoor "FC/APC" 9dBm 64 users 3i: 2x 290...2340MHz(Sat) – RF(Terr.), 1o: 1530nm(Sat+Terr)	1
OPTICAL RECEIVERS		
237520	Overlight Optical Receiver dCSS "SC/APC" 1i: 1100...1650nm(Sat+Terr.), 4o: 2x (dCSS/Legacy+Terr.), 2x (Terr.) (SKY version)	1
237523	Overlight Optical Receiver dCSS "SC/APC" 1i: 1100...1650nm(Sat+Terr.), 4o: 2x (dCSS/Legacy+Terr.), 2x (Terr.) + PSU with UK plug (SKY version)	1
237530	Overlight Optical Receiver dCSS "SC/APC" 1i: 1100...1650nm(Sat+Terr.), 4o: (dCSS/Legacy+Terr.) (SKY version)	1
237533	Overlight Optical Receiver dCSS "SC/APC" 1i: 1100...1650nm(Sat+Terr.), 4o: (dCSS/Legacy+Terr.) + PSU with UK plug (SKY version)	1
237540	Overlight Optical Receiver Quattro "SC/APC" FM/DAB/UHF-SAT	1
237550	Overlight Optical Receiver Quad "SC/APC" FM/DAB/UHF-SAT	1
ACCESSORIES		
★ 234750	CWDM Optical Multiplexer / Demultiplexer "SC/APC" 4i: 1510/1530/1550/1570nm, 1o + Power Supply Unit, 1RU	1



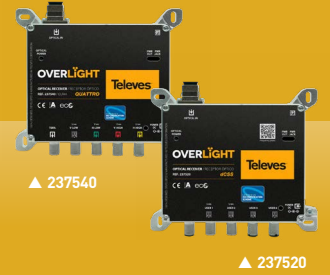
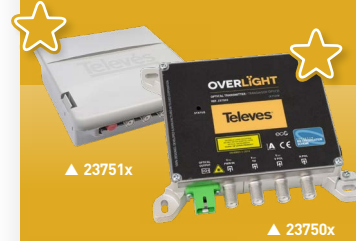
▲ 237523



▲ 237533

OVERLIGHT SERIES

ENHANCED ELECTRONICS AND OPTICAL ENGINEERING TO LIGHT UP YOUR TV



Satellite and terrestrial TV distribution through a **single optical fiber**, reducing the number of antennas and devices in the installation without losing the quality of the signal. Ideal to provide TV services to housing estates, blocks of apartments, hotels and campsites, residences, and other FTx solutions.

- High output level
- Low loss and a balanced end-to-end TV signal
- Optimized electronic design
- Compatible with GPON

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▲ 234750



TV DISTRIBUTION OPTICAL FIBER

Ref.	Description	
TV THROUGH OPTICAL FIBER (MAX. 32 USERS)		
KIT: LNB AND OPTICAL CONVERTER		
237411	Kit: WideBand LNB + Optical Transmitter "FC/UPC" 8dBm 32 users 1550nm	1
237412	Kit: WideBand LNB + Optical Transmitter "FC/UPC" 8dBm 32 users 1310nm	1
CONVERTERS		
236903	Optical/RF Converter "FC/PC"-F" Quad FM/DAB/UHF-SAT	1/64
237003	Optical/RF Converter "FC/PC"-F" Quattro FM/DAB/UHF-SAT	1/60
237201	dCSS Optical/RF Converter GTU "FC/PC"-F" Twin FM/DAB/UHF-SAT	1
OPTICAL SYSTEMS WITH WDM		
Full SAT + DTT		
237301	Optical Transmitter / Multiplexer. 2i: "FC/PC" 1310/1490nm(Sat) - RF(Terr.), 1o: "SC/APC" 1310/1490/1550nm(Sat/Terr.), 6dBm	1
237302	Optical Transmitter / Multiplexer "SC/APC". 2i: 1310/1490nm(Sat) - RF(Terr.), 1o: 1310/1490/1550nm(Sat/Terr.), 9dBm	1
237320	Optical Receiver / Demultiplexer "SC/APC" (-8...+1dBm) with Satellite Selection Switch. 1i: 1310/1550nm(Sat/Sat+Terr.), 4o: RF(Sat+Terr.) Vo 78dBμV DIN rail installation	1
Fiber4Sat		
237901	Optical Transmitter / Multiplexer DWDM "SC/APC" 9dBm 5i: 4x 1100...1650nm(Sat) - RF(Terr.), 1o: 1550nm(4xSat+Terr)	1
237910	Optical Transmitter / Multiplexer Module DWDM "SC/APC" 9dBm 3i: 2x 1100...1650nm(Sat) - RF(Terr.), 1o: 1550nm(2xSat+Terr)	1
WDM Multiplexers		
★ 234750	CWDM Optical Multiplexer / Demultiplexer "SC/APC" 4i: 1510/1530/1550/1570nm, 1o + Power Supply Unit, 1RU	1
234755	DWDM Component, Optical Multiplexer / Demultiplexer 1i "SC/APC": COM, 4o "FC/PC": 1550,12nm (Ch34) / 1150,92nm (Ch33) / 1551,72nm (Ch32) / 1552,52nm (Ch31)	1
234756	CWDM Component, Optical Multiplexer / Demultiplexer 1i "SC/APC": COM, 4o "FC/PC": 1510/1530/1550/1570nm	1
ACCESSORIES		
2354	Simplex F.O. Adapter Single-Mode "FC" Female - "FC" Female	5
2356	Simplex F.O. Adapter Single-Mode "FC" Female - "SC" Female	5
237050	Power Supply Unit 20V-1.2A (for Ref. 237003/236903)	1
732101	Power Supply Unit 12V-0.8A	1
732210	Power Supply Unit 12V-1.5A (UK plug)	1/10
732802	Power Supply Unit 12.5V-2.8A	1



▲ 237411



▲ 236903



▲ 237302



▲ 237320

▲ Full DTT + SAT system over optical fibre with WDM



▲ 237901 Fiber4Sat



▲ 234755



TV DISTRIBUTION MULTISWITCHES

Ref.	Description		
EUROSWITCH SERIES			
5X - 1 SATELLITE			
Multiswitches			
719501	Multiswitch 5x5x4 "F" Terminal/Cascade	TFORCE	1
719502	Multiswitch 5x5x6 "F" Terminal/Cascade	TFORCE	1
719503	Multiswitch 5x5x8 "F" Terminal/Cascade	TFORCE	1
719504	Multiswitch 5x5x12 "F" Terminal/Cascade	TFORCE	1
719505	Multiswitch 5x5x16 "F" Terminal/Cascade	TFORCE	1
719506	Multiswitch 5x5x24 "F" Terminal/Cascade	TFORCE	1
719507	Multiswitch 5x5x32 "F" Terminal/Cascade	TFORCE	1
Accessories			
714508	Amplifier 5x5 "F" MATV/IF G 10/11dB Vo 118dB μ V		1
714509	Amplifier 5x5 "F" MATV/IF G 27/31dB Vo 114/118dB μ V		1
9X - 2 SATELLITES			
Multiswitches			
719601	Multiswitch 9x9x8 "F" Terminal/Cascade	TFORCE	1
719602	Multiswitch 9x9x12 "F" Terminal/Cascade	TFORCE	1
719603	Multiswitch 9x9x16 "F" Terminal/Cascade	TFORCE	1
719604	Multiswitch 9x9x24 "F" Terminal/Cascade	TFORCE	1
719605	Multiswitch 9x9x32 "F" Terminal/Cascade	TFORCE	1
Accessories			
719609	Amplifier 9x9 "F" Ret.P/MATV/IF G -/27/31dB Vo 114/118dB μ V		1
17X - 4 SATELLITES			
Multiswitches			
719801	Multiswitch 17x17x8 "F" Terminal/Cascade	TFORCE	1
719803	Multiswitch 17x17x16 "F" Terminal/Cascade	TFORCE	1
719804	Multiswitch 17x17x24 "F" Terminal/Cascade	TFORCE	1
719805	Multiswitch 17x17x32 "F" Terminal/Cascade	TFORCE	1
Accessories			
719809	Amplifier 17x17 "F" Ret.P/MATV/IF G -/27/31dB Vo 114/118dB μ V		1
Ref.	Description		
NEVOSWITCH SERIES			
5X - 1 SATELLITE			
Multiswitches			
714501	Multiswitch 5x5x4 "F" Terminal/Cascade		1
714502	Multiswitch 5x5x6 "F" Terminal/Cascade		1
714503	Multiswitch 5x5x8 "F" Terminal/Cascade		1
714504	Multiswitch 5x5x12 "F" Terminal/Cascade		1
714505	Multiswitch 5x5x16 "F" Terminal/Cascade		1
714506	Multiswitch 5x5x24 "F" Terminal/Cascade		1
714507	Multiswitch 5x5x32 "F" Terminal/Cascade		1
Quad multiswitches			
714413	Quad Compatible Multiswitch 5x5x8 "F" Terminal/Cascade (12V-1.5A PSU with UK plug included)		1
714414	Quad Compatible Multiswitch 5x5x12 "F" Terminal/Cascade (12V-1.5A PSU with UK plug included)		1
714415	Quad Compatible Multiswitch 5x5x16 "F" Terminal/Cascade (12V-1.5A PSU with UK plug included)		1
714416	Quad Compatible Multiswitch 5x5x24 "F" Terminal/Cascade (12V-1.5A PSU with UK plug included)		1
714417	Quad Compatible Multiswitch 5x5x32 "F" Terminal/Cascade (12V-1.5A PSU with UK plug included)		1
Accessories			
714508	Amplifier 5x5 "F" MATV/IF G 10/11dB Vo 118dB μ V		1
714509	Amplifier 5x5 "F" MATV/IF G 27/31dB Vo 114/118dB μ V		1
714901	Tap 5x5x5 "F" 12dB		1
714902	Tap 5x5x5 "F" 15dB		1
714903	Tap 5x5x5 "F" 20dB		1
714905	Splitter 5x5x5 "F" 4/4dB		1
714906	Tap 5x5x5 "F" 8dB		1
9X - 2 SATELLITES			
Multiswitches			
714601	Multiswitch 9x9x8 "F" Terminal/Cascade		1
714602	Multiswitch 9x9x12 "F" Terminal/Cascade		1
714603	Multiswitch 9x9x16 "F" Terminal/Cascade		1
714604	Multiswitch 9x9x24 "F" Terminal/Cascade		1
714605	Multiswitch 9x9x32 "F" Terminal/Cascade		1

EUROSWITCH SERIES

SCALABLE RANGE OF MULTISWITCHES WITH EUROPEAN DESIGN, QUALITY AND MANUFACTURING



Thanks to its great compactness and its optimized electronic design, it presents very low through and tap losses.

In addition, thanks to the **TForce technology**, the device adjusts the output level of the terrestrial signal to optimal values at any times.

uk.televés.com/euroswitch



▲ 719603

EUROSWITCH / Nevoswitch

A unique amplifier compatible with both series



▲ 714509



▲ 714413

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TV DISTRIBUTION MULTISWITCHES

Ref.	Description	
NEVOSWITCH SERIES		
9X - 2 SATELLITES		
Quad multiswitches		
714211	Quad Compatible Multiswitch 9x9x8 "F" Terminal/Cascade (12V-1.5A PSU with UK plug included)	1
714212	Quad Compatible Multiswitch 9x9x12 "F" Terminal/Cascade (12V-1.5A PSU with UK plug included)	1
714213	Quad Compatible Multiswitch 9x9x16 "F" Terminal/Cascade (12V-1.5A PSU with UK plug included)	1
714241	Quad Compatible Multiswitch 9x9x8 "F" Terminal/Cascade	1
714242	Quad Compatible Multiswitch 9x9x12 "F" Terminal/Cascade	1
714243	Quad Compatible Multiswitch 9x9x16 "F" Terminal/Cascade	1
714244	Quad Compatible Multiswitch 9x9x24 "F" Terminal/Cascade	1
714245	Quad Compatible Multiswitch 9x9x32 "F" Terminal/Cascade	1
Accessories		
714609	Amplifier 9x9 "F" Ret.P/MATV/IF G -/27/31dB Vo 112/119dBµV	1
13X - 3 SATELLITES		
Multiswitches		
714701	Multiswitch 13x13x8 "F" Terminal/Cascade	1
714702	Multiswitch 13x13x12 "F" Terminal/Cascade	1
714703	Multiswitch 13x13x16 "F" Terminal/Cascade	1
714704	Multiswitch 13x13x24 "F" Terminal/Cascade	1
714705	Multiswitch 13x13x32 "F" Terminal/Cascade	1
Accessories		
714709	Amplifier 13x13 "F" Ret.P/MATV/IF G -/27/31dB Vo 112/119dBµV	1
17X - 4 SATELLITES		
Multiswitches		
714801	Multiswitch 17x17x8 "F" Terminal/Cascade	1
714802	Multiswitch 17x17x12 "F" Terminal/Cascade	1
714803	Multiswitch 17x17x16 "F" Terminal/Cascade	1
714804	Multiswitch 17x17x24 "F" Terminal/Cascade	1
714805	Multiswitch 17x17x32 "F" Terminal/Cascade	1
Accessories		
714809	Amplifier 17x17 "F" Ret.P/MATV/IF G -/27/31dB Vo 112/119dBµV	1
DCSS NEVOSWITCH SERIES		
5X - 1 SATELLITE		
Multiswitches		
714101	dCSS Multiswitch 5x5x2 "F" Terminal/Cascade, Switchable Adjustable/Passive Terrestrial (Sky version) TFFORCE	1
714102	dCSS Multiswitch 5x5x4 "F" Terminal/Cascade, Switchable Adjustable/Passive Terrestrial (SKY version) TFFORCE	1
714103	dCSS Multiswitch 5x5x8 "F" Terminal/Cascade, Switchable Adjustable/Passive Terrestrial (SKY version) TFFORCE	1
714104	dCSS Multiswitch 5x5x12 "F" Terminal/Cascade, Switchable Adjustable/Passive Terrestrial (SKY version) TFFORCE	1
714105	dCSS Multiswitch 5x5x16 "F" Terminal/Cascade, Switchable Adjustable/Passive Terrestrial (SKY version) TFFORCE	1
★ 719301	dCSS Multiswitch 5x5x2, 1xSat(Quattro)/ 2xSat (WideBand), "F" Terminal/Cascade, Switchable Adjustable/Passive Terrestrial (Sky version) TFFORCE	1
★ 719302	dCSS Multiswitch 5x5x4, 1xSat(Quattro)/ 2xSat (WideBand), "F" Terminal/Cascade, Switchable Adjustable/Passive Terrestrial (Sky version) TFFORCE	1
Accessories		
★ 730901	WideBand Amplifier 5x5 "F" MATV/IF G 10/13dB Vo 118dBµV	1
★ 730902	WideBand Amplifier 5x5 "F" MATV/IF G 27/29dB Vo 118dBµV	1
POWER SUPPLY UNITS		
12V		
732101	Power Supply Unit 12V-0.8A	1
732210	Power Supply Unit 12V-1.5A (UK plug)	1/10
732802	Power Supply Unit 12.5V-2.8A	1
18V		
732001	Power Supply Unit 18V-2A (NevoSwitch dCSS/EuroSwitch)	1
732010	Power Supply Unit 18V-2A (dCSS NevoSwitch/EuroSwitch, UK plug)	1
ACCESSORIES		
3821	"Quick F" Male - "F" Male Adapter, Plastic Box	50/500
401001	Interconnection Plate 10 "Quick F" Connectors, 98x56mm	30
401002	Interconnection Plate 8 "Quick F" Connectors, 68x56mm	30
401003	Interconnection Plate 8 "Quick F" Connectors, 68x83mm	30
4174	Set of 5 Colour Coded Leads "Quick F" 260mm	1/50
★ 421103	"Quick F" Coaxial Jumper 17mm	100/500
★ 421104	"Quick F" Coaxial Jumper 34mm	100/500
732150	DC Cable "F"-"Jack" Female 0,4m	1
7450	Current Injector 10...2150MHz 1...24Vdc-1.5A	1/20
993810	Earth Bonding Bar 4 Connectors (9x/13x/17x NevoSwitch compatible)	54
993811	Earth Bonding Bar 5 Connectors (5x/9x/13x/17x NevoSwitch compatible)	120



▲ 714701

NEVOSWITCH dCSS

AN INNOVATIVE NEVOSWITCH THAT IMPLEMENTS **DCSS TECHNOLOGY, WITH THE DCFLEX FUNCTION**



DCFLEX provides full flexibility in choosing how to power the system. The dCSS NevoSwitch satisfies any type of installation.

This versatility is achieved by using switches to select cascaded DC switching for every need.

Furthermore, references 7193xx allow to select the **configuration of the input signal** between Quattro mode (1 satellite) or WideBand mode (2 satellites).

uk.televés.com/dcssnevoswitch



▲ 732802



▲ 401001



▲ 4174

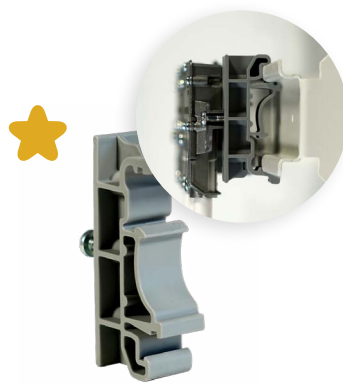


TV DISTRIBUTION DISTRIBUTION

Ref.	Description	
SPLITTERS		
EASYF SERIES		
Terrestrial + satellite		
434103	Mini-Splitter 5...2400MHz "EasyF" 2W 4.5/4.3dB DC Pass All With Outdoor Mounting Case (Blister T1)	1/10
434202	Splitter 5...2400MHz "EasyF" 4W 9/7.5dB DC Pass 0-I With Outdoor Mounting Case (Blister T1)	1/8
543503	Mini-Splitter 5...2400MHz "EasyF" 2W 4.3/4dB Indoor DC Pass 0-I	10
543603	Mini-Splitter 5...2400MHz "EasyF" 3W 8.5/7.5dB Indoor DC Pass 0-I	10
543702	Splitter 5...2400MHz "EasyF" 4W 9/7.5dB Indoor DC Pass 0-I	10
543802	Splitter 5...2400MHz "EasyF" 5W 10/9.5dB Indoor DC Pass 0-I	10
5469	Splitter 5...2400MHz "EasyF" 6W 11/14dB Indoor DC Pass 0-I	6
5489	Splitter 5...2400MHz "EasyF" 8W 14/16dB Indoor DC Pass 0-I	6
F SERIES		
Terrestrial + Satellite		
519502	Splitter 5...2400MHz "F" 2W 5/4dB Indoor	10
519503	Splitter 5...2400MHz "F" 3W 8/7dB Indoor	10
519504	Splitter 5...2400MHz "F" 4W 9/8dB Indoor	10
519505	Splitter 5...2400MHz "F" 5W 11/10dB Indoor	10
519506	Splitter 5...2400MHz "F" 6W 12/11dB Indoor	10
519508	Splitter 5...2400MHz "F" 8W 15/14dB Indoor	10
ACCESSORIES		
4058	Terminal Load "F" 750hm without DC Blocked	10/200
405802	Terminal Load "F" 750hm without DC Blocked, Plastic Box	200/2000
4061	Terminal Load "F" 750hm with DC Blocked	10/200
4163	Outdoor Case Grey Large Model Dimensions: External 136x127x45mm Internal 125x97x35mm	● 1/5
4177	Outdoor Case Black Small Model Dimensions: External 113x88x35mm Internal 92x66x27mm	● 1/5
417801	Outdoor Case Black Model for Mini Series Dimensions: External 88x78x39mm Internal 57x47x13mm	● 1/10
★ 421103	"Quick F" Coaxial Jumper 17mm	100/500
★ 421104	"Quick F" Coaxial Jumper 34mm	100/500
★ 519901	DIN Rail Adapter for F Series	● 30
545501	Face Plate White 93x74x21mm	○ 10
★ 549901	DIN Rail Adapter for EasyF Series	● 20



▲ 519901



▲ 549901



▲ 421103



▲ 4177



▲ 4058



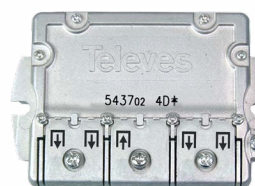
▲ 4061



▲ 417801



▲ Mini-Splitter
57x 47 x 13 mm



▲ 543702



▲ 5469



▲ 519502



▲ 519505



▲ 519508



TV DISTRIBUTION DISTRIBUTION

Ref.	Description	
TAPS		
EASYF SERIES		
Terrestrial + Satellite		
542503	Mini-Tap 5...2400MHz "EasyF" 2W 12dB Indoor DC Pass I-O (TA - Floor 1)	10
542603	Mini-Tap 5...2400MHz "EasyF" 2W 16dB Indoor DC Pass I-O (A - Floors 2 & 3)	10
542703	Mini-Tap 5...2400MHz "EasyF" 2W 21dB Indoor DC Pass I-O (B - Floors 4...6)	10
542803	Mini-Tap 5...2400MHz "EasyF" 2W 25dB Indoor DC Pass I-O (C - Floors 7...12)	10
544402	Tap 5...2400MHz "EasyF" 4W 12dB Indoor DC Pass I-O (TA - Floor 1)	10
544502	Tap 5...2400MHz "EasyF" 4W 16dB Indoor DC Pass I-O (A - Floors 2 & 3)	10
544602	Tap 5...2400MHz "EasyF" 4W 20dB Indoor DC Pass I-O (B - Floors 4 & 5)	10
544702	Tap 5...2400MHz "EasyF" 4W 25dB Indoor DC Pass I-O (C - Floors 6...8)	10
5492	Tap 5...2400MHz "EasyF" 6W 16dB Indoor DC Pass I-O (TA - Floor 1)	6
5493	Tap 5...2400MHz "EasyF" 6W 20dB Indoor DC Pass I-O (A - Floors 2 & 3)	6
5494	Tap 5...2400MHz "EasyF" 6W 24dB Indoor DC Pass I-O (B - Floors 4 & 5)	6
5610	Tap 5...2400MHz "EasyF" 8W 16dB Indoor DC Pass I-O (TA - Floor 1)	6
5611	Tap 5...2400MHz "EasyF" 8W 22dB Indoor DC Pass I-O (A - Floor 2)	6
F SERIES		
Terrestrial + Satellite		
519322	Tap 5...2400MHz "F" 2W 12dB Indoor	10
519323	Tap 5...2400MHz "F" 2W 16dB Indoor	10
519324	Tap 5...2400MHz "F" 2W 20dB Indoor	10
519325	Tap 5...2400MHz "F" 2W 24dB Indoor	10
519341	Terminal Tap 5...2400MHz "F" 4W 8dB Indoor	10
519342	Tap 5...2400MHz "F" 4W 12dB Indoor	10
519343	Tap 5...2400MHz "F" 4W 16dB Indoor	10
519344	Tap 5...2400MHz "F" 4W 20dB Indoor	10
519345	Tap 5...2400MHz "F" 4W 24dB Indoor	10
519362	Terminal Tap 5...2400MHz "F" 6W 12dB Indoor	10
519363	Tap 5...2400MHz "F" 6W 16dB Indoor	10
519364	Tap 5...2400MHz "F" 6W 20dB Indoor	10
519365	Tap 5...2400MHz "F" 6W 24dB Indoor	10
519382	Terminal Tap 5...2400MHz "F" 8W 14dB Indoor	10
519383	Tap 5...2400MHz "F" 8W 16dB Indoor	10
519384	Tap 5...2400MHz "F" 8W 20dB Indoor	10
519385	Tap 5...2400MHz "F" 8W 24dB Indoor	10
ACCESSORIES		
4058	Terminal Load "F" 750hm without DC Blocked	10/200
405802	Terminal Load "F" 750hm without DC Blocked, Plastic Box	200/2000
4061	Terminal Load "F" 750hm with DC Blocked	10/200
4163	Outdoor Case Grey Large Model Dimensions: External 136x127x45mm Internal 125x97x35mm	● 1/5
4177	Outdoor Case Black Small Model Dimensions: External 113x88x35mm Internal 92x66x27mm	● 1/5
417801	Outdoor Case Black Model for Mini Series Dimensions: External 88x78x39mm Internal 57x47x13mm	● 1/10
★ 421103	"Quick F" Coaxial Jumper 17mm	100/500
★ 421104	"Quick F" Coaxial Jumper 34mm	100/500
★ 519901	DIN Rail Adapter for F Series	● 30
545501	Face Plate White 93x74x21mm	○ 10
★ 549901	DIN Rail Adapter for EasyF Series	● 20
Ref.	Description	
OUTLETS		
SCREW-FREE MOUNTING		
Terrestrial + satellite - 3 connectors		
524501	End Outlet Triplexed 5..2400MHz, TV/FM-SAT1-SAT2 1-1.5-1dB with DC Pass	1/10/100
SCREW MOUNTING		
Terrestrial + satellite - 4 connectors		
516110	Quad End Outlet 5...2200MHz, FM-TV-SAT1-SAT2 8-5-3-2.8dB with DC Pass + Back Box + Face Plate	1/10/100
ACCESSORIES		
Terminal loads		
4061	Terminal Load "F" 750hm with DC Blocked	10/200



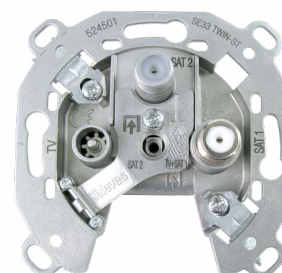
▲ 544402



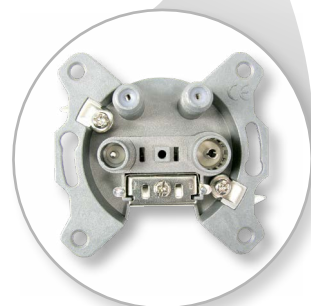
▲ 519324



▲ 519363



▲ 524501

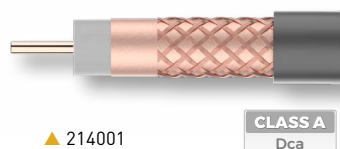
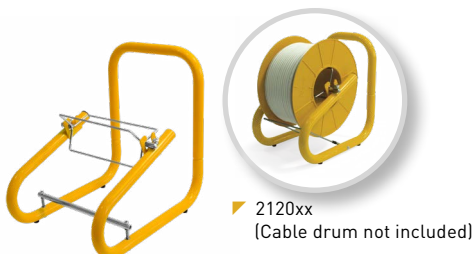


▲ 516110



TV DISTRIBUTION COAXIAL CABLES AND CONNECTORS

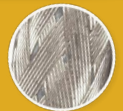
Ref.	Description		
CONVENTIONAL COAXIAL CABLES (RG-6)			
TRIPLE SHIELDING - CLASS A++			
CPR B2ca: Copper / copper			
413910	Coaxial Cable SK2020plus LSFH UV Resistant B2ca Class A++ Triple Shielded TSH 18AtC Ø 1.05/4.6/6.9mm White		
413911	Coaxial Cable SK2020plus LSFH UV Resistant B2ca Class A++ Triple Shielded TSH 18AtC Ø 1.05/4.6/6.9mm White		
413912	Coaxial Cable SK2020plus LSFH UV Resistant B2ca Class A++ Triple Shielded TSH 18AtC Ø 1.05/4.6/6.9mm White		
CPR Cca: Copper / copper			
414901	Coaxial Cable SK2015plus LSFH UV Resistant Cca Class A++ Triple Shielded TSH 18AtC Ø 1.05/4.6/6.9mm White		
414902	Coaxial Cable SK2015plus LSFH UV Resistant Cca Class A++ Triple Shielded TSH 18AtC Ø 1.05/4.6/6.9mm White		
TRIPLE SHIELDING - CLASS A+			
CPR Dca: Copper / copper			
414002	Coaxial Cable SK2003plus LSFH UV Resistant Dca Class A+ Triple Shielded TSH 18AtC Ø 1.02/4.6/6.70mm Black		
414003	Coaxial Cable SK2003plus LSFH UV Resistant Dca Class A+ Triple Shielded TSH 18AtC Ø 1.02/4.6/6.70mm Black		
414004	Coaxial Cable SK2003plus LSFH UV Resistant Dca Class A+ Triple Shielded TSH 18AtC Ø 1.02/4.6/6.70mm Black		
CPR Eca: Copper / copper			
413707	Coaxial Cable SK110plus PVC Eca Class A+ Triple Shielded TSH 18VAtC Ø 1.02/4.6/6.70mm Black		
TRIPLE SHIELDING - CLASS A			
CPR Cca: Copper / copper			
414211	Coaxial Cable SK2005plus LSFH UV Resistant Cca Class A Triple Shielded TSH 18AtC Ø 1.00/4.6/6.7mm Black		
DOUBLE SHIELDING - CLASS A			
CPR Dca: Copper / copper			
214911	Coaxial Cable TR-165 LSFH UV Resistant Dca Class A 11RtC Ø 1.63/7.2/10.1mm Grey		
CPR Eca: Copper clad aluminium /aluminium			
2127	Coaxial Cable CXT-1 PVC Eca Class A 17VAtC.A Ø 1.00/4.7/6.7mm White		
212702	Coaxial Cable CXT-1 PVC Eca Class A 17VAtC.A Ø 1.00/4.7/6.7mm Black		
212703	Coaxial Cable CXT-1 PVC Eca Class A 17VAtC.A Ø 1.00/4.7/6.7mm White		
ACCESSORIES			
Dispensers			
212001	Coaxial Cable / Optical Fiber Dispenser, Small model (Plastic drums: Coaxial cable 100m and F.O. 200/300m)		1
212011	Coaxial Cable / Optical Fiber Dispenser, Large model (Plastic drums: Coaxial cable 250m and F.O. 500/750m)		1
Fixing			
200101	Velcro Tape for Cables 8m, Width: 20mm, Black (2 units)		1
200102	Velcro Flange for Cables, Width: 15mm, Black (10 units)		1
Ref.	Description		
DIRECT-BURIED CABLES (RG-11)			
CPR DCA: COPPER / COPPER			
214001	Coaxial Cable 1/2" LSFH UV Resistant Dca Class A 7RtC Ø 2.7/11.5/15.0mm Grey		
214911	Coaxial Cable TR-165 LSFH UV Resistant Dca Class A 11RtC Ø 1.63/7.2/10.1mm Grey		



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TRIPLE SHIELDED CABLES

The Trishield cable provides the greatest immunity against interferences. Its use is specially recommend when trying to avoid interference.



COVERAGE UP TO 82%



SK2020plus (4139xx)

CLASS A++
B2ca

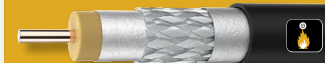
An exceptional TSH cable with high screening attenuation, that offers an A++ class.

Additionally, due to its LSFH outer sheath, it complies with the requirements for CPR class B2ca, so it has a very low fire hazard.



SK2015plus (4149xx)

CLASS A++
Cca



SK2003plus (4140xx)

CLASS A+
Dca

CAI type 100 approved cable



SK110plus (413707)

CLASS A+
Eca

CAI type 100 approved cable



SK2005plus (414211)

CLASS A
Cca

CAI type RG6 approved cable



CXT-1 (2127xx)

CLASS B
Eca



TR-165 (214911)

CLASS A
Dca

TV DISTRIBUTION COAXIAL CABLES AND CONNECTORS

References		413910 413911 413912	414901 414902	414002 414003 414004	413707
Model		SK2020plus	SK2015plus	SK2003plus	SK110plus
Shielding		A++	A++	A+	A+
CPR Euroclass		B2ca-s1a,d1,a1	Cca-s1a,d1,a1	Dca-s2,d2,a2	Eca
Inner Conductor	Ø mm	1.05	1.05	1.02	1.00
	Material	Cu	Cu	Cu	Cu
	Res. Max. Ohm/Km	22	22	22	22
Dielectric	Ø mm	4.7	4.7	4.6	4.6
	Material	PEE	PEE	PEE	PEE
Over Lapped Foil	Material	B	B	B	B
	Material	CuSn	CuSn	CuSn	CuSn
Braid	Res. Max. Ohm/Km	11	11	11	15
	Nc x Ns x Ø	24x7x0.1	24x7x0.1	24x7x0.1	16x6x0.1
	Coverage %	82	82	82	55
2 nd shielding foil		Yes	Yes	Yes	Yes
Anti-migrating Film		No	No	No	No
Petro-Jelly		No	No	No	No
Outer sheath	Ø mm	6.9	6.9	6.7	6.7
	Material	LSFH + UV	LSFH + UV	LSFH + UV	PVC
Spark Test	VAC	3000	3000	3000	3000
Minimum bending radius	mm	34.5	34.5	33.5	33.5
Shielding Min. @1GHz	dB	105	105	95	95
Capacitance	pF/m	54	54	54	54
Impedance	Ohm	75	75	75	75
Transfer impedance Max. (5-30MHz)	mOhm/m	0.9	0.9	2.5	2.5
Velocity ratio	%	84	84	84	84
Attenuations (dB/m)					
Frequency (MHz)	5	0.02	0.02	0.02	0.02
	47	0.04	0.04	0.05	0.05
	54	0.05	0.05	0.05	0.05
	90	0.06	0.06	0.06	0.06
	200	0.09	0.09	0.09	0.09
	500	0.14	0.14	0.14	0.14
	698	0.17	0.17	0.17	0.16
	800	0.18	0.18	0.18	0.18
	862	0.19	0.19	0.19	0.19
	950	0.20	0.20	0.20	0.20
	1000	0.21	0.21	0.21	0.21
	1220	0.23	0.23	0.23	0.22
	1350	0.25	0.25	0.25	0.25
	1750	0.28	0.28	0.28	0.28
	2050	0.30	0.30	0.30	0.31
	2150	0.31	0.31	0.31	0.32
	2200	0.32	0.32	0.32	0.32
3000	0.36	0.36	0.36	0.36	

References		414211	214911	214001	2127 212702 212703
Model		SK2005plus	TR-165	1/2"	CXT-1
Shielding		A	A	A	A
CPR Euroclass		Cca-s1b,d2,a2	Dca-s2,d2,a1	Dca-s2,d2,a1	Eca
Inner Conductor	Ø mm	1.00	1.63	2.70	1.00
	Material	Cu	Cu	Cu	CCS
	Res. Max. Ohm/Km	22	9	3.2	105
Dielectric	Ø mm	4.6	7.2	11.5	4.7
	Material	PEE	PEE	PEE	PEE
Over Lapped Foil	Material	B	D	C	B
	Material	CuSn	Cu	Cu	Al
Braid	Res. Max. Ohm/Km	14	7	7	30
	Nc x Ns x Ø	16x7x0.1	16x8x0.1	24x8x0.1	16x8x0.1
	Coverage %	60	77	77	77
2 nd shielding foil		Yes	No	No	No
Anti-migrating Film		No	No	No	No
Petro-Jelly		No	Yes	Yes	No
Outer sheath	Ø mm	6.7	10.1	15.0	6.7
	Material	LSFH + UV	LSFH + UV	LSFH + UV	PVC
Spark Test	VAC	3000	8000	8000	3000
Minimum bending radius	mm	33.5	50.0	75.0	33.0
Shielding Min. @1GHz	dB	85	85	85	85
Capacitance	pF/m	54	53	55	54
Impedance	Ohm	75	75	75	75
Transfer impedance Max. (5-30MHz)	mOhm/m	5.0	5.0	5.0	-
Velocity ratio	%	84	84	87	82
Attenuations (dB/m)					
Frequency (MHz)	5	0.02	0.01	0.01	0.03
	47	0.05	0.03	0.02	0.05
	54	0.05	0.03	0.02	0.05
	90	0.06	0.04	0.02	0.06
	200	0.09	0.06	0.03	0.09
	500	0.14	0.09	0.06	0.15
	698	0.17	0.10	0.07	0.16
	800	0.18	0.11	0.07	0.17
	862	0.19	0.12	0.08	0.19
	950	0.20	0.12	0.08	0.20
	1000	0.21	0.13	0.08	0.21
	1220	0.23	0.14	0.09	0.24
	1350	0.25	0.15	0.10	0.25
	1750	0.28	0.18	0.12	0.29
	2050	0.30	0.19	0.13	0.31
	2150	0.31	0.20	0.14	0.32
	2200	0.32	0.20	0.14	0.35
3000	0.36	0.24	0.16	0.39	

Sheath	Enviroment
PVC	Indoor
LSFH + UV	Indoor/Outdoor (Low Smoke Free of Halogen, UV Resistant)

Over Lapped Foil composition	Environment
B Aluminium + Polyester	
C Copper + Polyester	
D Aluminium + Polypropylene + Aluminium	

Other abbreviations	
PEE	Foam Polyethylene
PVC	Polyvinyle Chlorhidre
Al	Aluminium
Cu	Cuivre
CCS	Copper Clad Steel
CuSn	Tinned Copper



TV DISTRIBUTION COAXIAL CABLES AND CONNECTORS

Ref.	Description		
EXTENSION CORDS			
WITH TRIPLE SHIELDING CABLE			
3850	Coaxial Cable Lead "F" Compression 280mm White	○	20/500
385001	Coaxial Cable Lead "F" Compression 330mm White	○	20/500
385002	Coaxial Cable Lead "F" Compression 390mm White	○	20/240
385003	Coaxial Cable Lead "F" Compression 500mm White	○	20/100
385004	Coaxial Cable Lead "F" Compression 430mm White	○	20/240
3851	Coaxial Cable Lead "F" Compression 1.5m White (Bag B0)	○	1/30
385101	Coaxial Cable Lead "F" Compression 3m White (Bag B0)	○	1/20
385102	Coaxial Cable Lead "F" Compression 5m White (Bag B0)	○	1/15
3852	Coaxial Cable Lead "IEC" Male-Female Compression 1.5m White (Bag B0)	○	1/30
385201	Coaxial Cable Lead "IEC" Male-Female Compression 3m White (Bag B0)	○	1/20
385202	Coaxial Cable Lead "IEC" Male-Female Compression 5m White (Bag B0)	○	1/15
3853	Coaxial Cable Lead "F" Compression - "Quick F" "PRO EasyF" 1.5m White (Bag B0)	○	1/30
385301	Coaxial Cable Lead "F" Compression - "Quick F" "PRO EasyF" 3m White (Bag B0)	○	1/20
385302	Coaxial Cable Lead "F" Compression - "Quick F" "PRO EasyF" 5m White (Bag B0)	○	1/15
3854	Coaxial Cable Lead "F" - "IEC" Female Compression 1.5m White (Bag B0)	○	1/30
385401	Coaxial Cable Lead "F" - "IEC" Female Compression 3m White (Bag B0)	○	1/20
385402	Coaxial Cable Lead "F" - "IEC" Female Compression 5m White (Bag B0)	○	1/15
385501	Coaxial Cable Lead "F" Compression - "IEC" Female "PRO EasyF" 3m White (Bag B0)	○	1/20
3856	Coaxial Cable Lead "F" - "IEC" Male Compression 1.5m White (Bag B0)	○	1/30
385601	Coaxial Cable Lead "F" - "IEC" Male Compression 3m White (Bag B0)	○	1/20
385602	Coaxial Cable Lead "F" - "IEC" Male Compression 5m White (Bag B0)	○	1/15
385701	Coaxial Cable Lead "F" Compression - "IEC" Male "PRO EasyF" 3m White (Bag B0)	○	1/20
3858	Coaxial Cable Lead "IEC" Male Compression - "IEC" Female "PRO EasyF" 1.5m White (Bag B0)	○	1/30
385801	Coaxial Cable Lead "IEC" Male Compression - "IEC" Female "PRO EasyF" 3m White (Bag B0)	○	1/20
385802	Coaxial Cable Lead "IEC" Male Compression - "IEC" Female "PRO EasyF" 5m White (Bag B0)	○	1/15
WITH DOUBLE SHIELDING CABLE			
431001	Coaxial Cable Lead "IEC" Ø 9.5mm Elbowed Shielded Male-Female 1,5m Grey (Blister T1)	●	1/8
431002	Coaxial Cable Lead "IEC" Ø 9.5mm Elbowed Shielded Male-Female 2,5m Grey (Blister T1)	●	1/8

CLASS A++



▲ 3851

CLASS A++



▲ 3856

CLASS A++



▲ 3858



▲ 431001



TV DISTRIBUTION COAXIAL CABLES AND CONNECTORS

Ref.	Description	
CONNECTORS (75 OHM)		
PRO EASYF		
IEC type		
413210	"PRO EasyF" "IEC" Ø 9.5mm Connector Male Elbowed Class A+ Shielded	25/250
413310	"PRO EasyF" "IEC" Ø 9.5mm Connector Female Elbowed Class A+ Shielded	25/250
"Quick F" type		
413410	"PRO EasyF" "Quick F" Connector Elbowed Class A+ Shielded	25/250
ASSEMBLING		
IEC type		
4130	"IEC" Ø 9.5mm Connector Male Elbowed Shielded	25/250
4131	"IEC" Ø 9.5mm Connector Female Elbowed Shielded (Bag B1)	25/250
"Quick F" type		
4176	"Quick F" Connector Elbowed Shielded	25/250
COMPRESSION		
F type		
3802	"F" Connector Compression for TSH Triple Shielded Cables (SK), Plastic Box	50/500
4104	"F" Connector Compression for T-100 Cable, Plastic Box	50/500
4105	"F" Connector Compression for CXT-5 (Ø 5mm) Cable, Plastic Box	50/500
410901	"F" Connector Compression Elbowed for T-100 Cable	25/500
Kits		
216401	Connection Kit for TSH Coaxial Cables – Carrying case which includes: 50x"F" Compression Connectors (ref. 3802), 1xCable Stripper (ref. 2145), 1xCompression tool (ref. 216301), 1xHEX-11 Wrench (ref. 216101) and 10xCaps (ref. 418001)	1
216403	Connection Kit for T100 Coaxial Cables – Carrying case which includes: 50x"F" Compression Connectors (ref. 4104), 1xCable Stripper (ref. 2145), 1xCompression tool (ref. 216301), 1xHEX-11 Wrench (ref. 216101) and 10xCaps (ref. 418001)	1
THREADED		
F type		
3808	"F" Connector Threaded with O-ring for CXT-5 (Ø 5mm) Cable, Plastic Box	100/1000
417101	"F" Connector Threaded with O-ring for T-100 Cable, Plastic Box	100/1000
417102	"F" Connector Threaded with O-ring for T-100 Cable, Plastic Box	50
9349	"F" Connector Threaded for TR-165 Cable	10/100
ADAPTERS		
381730	"F" Female - "IEC" Male Elbowed Adapter, Plastic Box	50
3821	"Quick F" Male - "F" Male Adapter, Plastic Box	50/500
4173	"F" Female - "F" Female Adapter, Plastic Box	50/500
TERMINAL LOAD		
4058	Terminal Load "F" 750hm without DC Blocked	10/200
405802	Terminal Load "F" 750hm without DC Blocked, Plastic Box	200/2000
4061	Terminal Load "F" 750hm with DC Blocked	10/200
ACCESSORIES		
4071	DC Blocker "F"	10
418001	Weatherproof Cap for "F" Compression & Crimp Connectors	10/250
TOOLS		
FOR COAXIAL CABLE		
2145	Professional Cable Stripper for Coaxial Cable and Data Cable	10
2162	Cable Stripper for Coaxial Cable and Data Cable (Bag B2)	1
2325	Round cable stripper for multifiber cables, data cables and coaxial cables	1
FOR CONNECTORS		
216101	Hex-11 Wrench for "F" Connectors	1/250
216120	Tightening Tool for "F" Connectors	1
2163	Tool for "F" Compression Connectors	1
216301	Tool for "F" Straight Compression Connectors	1
216310	Insertion Tool for "F" Compression Connectors	1



▲ 216120



▲ 2162



▲ 216101



▲ 216310



▲ Plastic Box



▲ 216401

PRO EasyF Class A+ CONNECTORS

THE
EXCEPTIONAL
SCREENING
FOR A COAXIAL
NETWORK



▲ 413210

▲ 413310

▲ 413410



▲ 4130



▲ 4176



▲ 410901



▲ 4104



▲ 3808



▲ 9349



▲ 417101 / 417102



▲ 3821



▲ 2163



▲ 216301



TV DISTRIBUTION SET TOP BOXES AND DOMESTIC ACCESSORIES

Ref.	Description	
MODULATORS		
585301	Modulator DVB-T 1i: HDMI - 1 Mux(174...230/470...862MHz): CODFM (MPEG-4). With 2xUSB, HDMI pass-through and Remote Management	1
A/V AND IR SENDERS		
WIRELESS IR SENDERS		
721903	Digidom Universal Transmitter, Remote Control Extender, 8 Channels	1/50
723703	Digidom Universal Transmitter + Receiver, Remote Control Extender, 8 Channels	1/30
HDMI DISTRIBUTION		
CABLE LEADS		
494501	HDMI Cable Male-Male 1.5m Black (Blister T1)	● 1/8
494502	HDMI Cable Male-Male 3m Black (Blister T2)	● 1/10
494503	HDMI Cable Male-Male 5m Black (Blister T2)	● 1/10
494505	HDMI Cable Male-Male 1.5m Black (Bag)	● 1/100

Televes



▲ 585301



▲ 723703



▲ 494501



TV DISTRIBUTION PROFESSIONAL EQUIPMENT

Ref.	Description	
FIELD STRENGTH METERS		
H30 SERIES		
H30+ & H30D+		
593901	H30+: DVB-C	1
593902	H30D+: DVB-C + DOCSIS 3.1	1
593905	H30D+ FULL: DVB-C + DVBT/T2 + DOCSIS 3.1 + WiFi Analyzer + IPTV Analyzer + HEVC display (Carrying Case and Coaxial Cable Lead included)	1
H30FLEX		
593301	H30FLEX: DVB-S/S2 + DVB-T	1
593302	H30FLEX: DVB-S/S2 + DVB-T/T2	1
593303	H30FLEX: DVB-S/S2 + DVB-C	1
593304	H30FLEX: DVB-S/S2 + DVB-T/T2 + DVB-C	1
593311	H30FLEX: DVB-S/S2/T (Carrying Case and Coaxial Cable Lead included)	1
593312	H30FLEX: DVB-S/S2/T/T2 (Carrying Case and Coaxial Cable Lead included)	1
593313	H30FLEX: DVB-S/S2/C (Carrying Case and Coaxial Cable Lead included)	1
593314	H30FLEX: DVB-S/S2/T/T2/C (Carrying Case and Coaxial Cable Lead included)	1
H30Evolution		
593501	H30Evolution: DVB-S/S2 + DVB-T (Smartphone Armband included)	1
593502	H30Evolution: DVB-S/S2 + DVB-T/T2 (Smartphone Armband included)	1
593503	H30Evolution: DVB-S/S2 + DVB-C (Smartphone Armband included)	1
593504	H30Evolution: DVB-S/S2 + DVB-T/T2 + DVB-C (Smartphone Armband included)	1
593505	H30Evolution FULL: Full DVB (-S/S2 + -T/T2 + -C) + IPTV Option + WiFi 2,4/5 GHz Option + HEVC display + Coaxial Cable Lead + Carrying Case (Smartphone Armband included)	1
593511	H30Evolution: DVB-S/S2/T (Carrying Case, Coaxial Cable Lead and Smartphone Armband included)	1
593512	H30Evolution: DVB-S/S2/T/T2 (Carrying Case, Coaxial Cable Lead and Smartphone Armband included)	1
593513	H30Evolution: DVB-S/S2/C (Carrying Case, Coaxial Cable Lead and Smartphone Armband included)	1
593514	H30Evolution: DVB-S/S2/T/T2/C (Carrying Case, Coaxial Cable Lead and Smartphone Armband included)	1

H30D+



**ALL THE FUNCTIONS YOU NEED,
ALSO IN CATV CABLE SYSTEMS**

The H30D+ is a lightweight, compact and robust equipment that includes a full range of tools and functionalities to successfully perform installation, maintenance and troubleshooting tasks in both analogue networks and digital networks with DVB-C channels. It stands out for incorporating advanced DOCSIS 3.1 measurements, automatic monitoring of the desired channel, double-check connectivity and the information about a QAM channel program content, among other powerful functions.

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H30FLEX

All the functions you need in your hand



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H30 EVOLUTION



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uk.televes.com/h30evolution

TV DISTRIBUTION PROFESSIONAL EQUIPMENT

Ref.	Description	
FIELD STRENGTH METERS		
H30 SERIES		
H30Crystal		
593601	H30Crystal: DVB-S/S2 + DVB-T, F.O. (Smartphone Armband included)	1
593602	H30Crystal: DVB-S/S2 + DVB-T/T2, F.O. (Smartphone Armband included)	1
593603	H30Crystal: DVB-S/S2 + DVB-C, F.O. (Smartphone Armband included)	1
593604	H30Crystal: DVB-S/S2 + DVB-T/T2 + DVB-C, F.O. (Smartphone Armband included)	1
593605	H30Crystal FULL: Full DVB (-S/S2 + -T/T2 + -C), F.O. + IPTV Option + WiFi 2,4/5 GHz Option + HEVC display + Coaxial Cable Lead + Carrying Case (Smartphone Armband included)	1
593621	H30Crystal: DVB-S/S2 + DVB-T, Selective F.O. (Smartphone Armband included)	1
593622	H30Crystal: DVB-S/S2 + DVB-T/T2, Selective F.O. (Smartphone Armband included)	1
593624	H30Crystal: DVB-S/S2 + DVB-T/T2 + DVB-C, Selective F.O. (Smartphone Armband included)	1
593625	H30Crystal FULL: Full DVB (-S/S2 + -T/T2 + -C), Selective F.O. + IPTV Option + WiFi 2,4/5 GHz Option + HEVC display + Coaxial Cable Lead + Carrying Case (Smartphone Armband included)	1
Options		
5909	Calibration of Spectrum Analyzer (Certificate Included)	1
★ 593212	Option Advanced API	1
593231	Option DVB-T	1
593232	Option DVB-T2 (DVB-T required)	1
593233	Option DVB-C	1
593234	Option dCSS	1
593235	Option Extended Terrestrial Input to 120dBμV	1
593236	Option Analogue A/V Display (Format Adapters and Protective Sleeve included)	1
593250	Option WiFi Analyzer (2,4/5GHz)	1
593251	Option IPTV Analyzer	1
593252	Option HEVC Display	1
Accessories		
593201	Protective Sleeve	1
593202	Replacement Battery	1
593203	Power Supply Unit 12V - 2A All Plugs	1
593205	Ports Protector	1
593239	Carrying Case	1
994101	Car Lighter-type 12V Charger adapter Cable, 1.5m	1/10



▲ 593239



▲ 593205



▲ 593201

	H30FLEX	H30EVOLUTION	H30CRYSTAL
Multi-standard customizable	✓	✓	✓
Frequency range	Return P: 5-50 MHz	-	✓
	Terrestrial: 50-880 MHz	✓	✓
	Satellite: 250-2400 MHz	✓ (up to 2200MHz)	✓
Screen	2.8" TFT 400 - 240 full color	2.8" TFT 400 - 240 full color	2.8" TFT 400 - 240 full color
Multi-screen with touch control on mobile device	-	✓	✓
Smartphone armband	-	✓	✓
2,4 / 5GHz WiFi connectivity	-	✓	✓
WiFi analyzer	-	✓ (*)	✓ (*)
Bluetooth connectivity	-	✓	✓
Ethernet interface	✓	✓	✓
USB interface	USB (A-type)	USB (A-type)	USB (A-type)
Optical measures	-	-	✓
Guided satellite pointing	-	✓	✓
IPTV analyzer	-	✓ (*)	✓ (*)
LNB Wideband compatible	-	✓	✓
HEVC displaying	on the meter	-	✓ (*)
	on the mobile device	-	✓ (*)
Terrestrial input level to 120dBμV	✓ (**)	✓ (**)	✓ (**)
dCSS compatible	✓ (**)	✓ (**)	✓ (**)
Management interface access (datalogs, channel plan...)	Ethernet cable	Wireless (WiFi/Bluetooth) Ethernet cable	Wireless (WiFi/Bluetooth) Ethernet cable
Dimensions	175x100x52 mm	175x100x52 mm	175x100x52 mm
Weight	510 g.	510 g.	550 g.
Color	Black & White	Black & Grey	Light & dark grey

* According to reference | ** Free activation of the options with the meter registration



ALL THE FUNCTIONS YOU NEED, ALSO IN FIBRE OPTICS

The H30Crystal expands H30 series of portable and compact meters by bringing strong efficiency in optic measurements. Its ability to analyse fibre-optic networks, along with all the features of previous models, makes this equipment a versatile and comprehensive tool for today's professional technicians, who are used to working with several telecommunication network technologies.

h30crystal.televés.com

uk.televés.com/h30crystal



TV DISTRIBUTION PROFESSIONAL EQUIPMENT

Ref.	Description	
FIELD STRENGTH METERS		
MOSAIQ6		
Meters		
596101	MOSAIQ6: DVB-T/T2 + DVB-S/S2/SX + DVB-C, CI, F.O. (Carrying Bag included)	1
596102	MOSAIQ6: DVB-T/T2 + DVB-S/S2/SX + DVB-C, CI, F.O. (Carrying Case included)	1
596105	MOSAIQ6 Advance: DVB-T/T2/S/S2/SX/C, CI, F.O., WiFi Analyzer, Analogue Measures, DAB/DAB+, 4K UHD (Carrying Bag included)	1
596111	MOSAIQ6: DVB-T/T2 + DVB-S/S2/SX + DVB-C, CI, Selective F.O. Interface (CWDM Filter) (Carrying Bag included)	1
596112	MOSAIQ6: DVB-T/T2 + DVB-S/S2/SX + DVB-C, CI, Selective F.O. Interface (Carrying Case included)	1
596115	MOSAIQ6 Advance: DVB-T/T2/S/S2/SX/C, CI, Selective F.O. Interface (CWDM Filter), WiFi Analyzer, Analogue Measures, DAB/DAB+, 4K UHD (Carrying Bag included)	1
Options		
596201	Option GPS Drive Test	1
596202	Option WiFi Analyzer (2,4/5GHz)	1
596203	Option Analogue Measures	1
596204	Option DAB/DAB+	1
596205	Option 4K - Ultra High Definition (UHD)	1
Accessories		
596210	Stand-alone, field replaceable battery	1
596211	Carrying Bag	1
596212	Adapter "N" Male - "F" Female	1
596213	Screen Protector	1
596214	Carrying Case	1



596214



596211



596210

MOSAIQ6



Portable meter with high performance and high accuracy for professional installers.

THE POWER OF USER EXPERIENCE

6 SCREENS IN 1

Thanks to its configurable interface, you choose which widgets (up to 6) you want to simultaneously display in the 8" high resolution screen. Check the installation status at a glance.

A TRUE TOUCH SCREEN

This new interface has been designed and also programmed to take full advantage of a touch screen with touch gestures (tap, double tap, long press, drag, spread or pinch). Only in this way is it possible to operate so easily a meter with so many performances.

mosaiq6.televes.com



[uk.televes.com/mosaiq6](https://www.youtube.com/watch?v=uk.televes.com/mosaiq6)

Centralized management of field meters



Mycloud is the measurement portal that centralizes the management of all your MOSAIQ6 meters in Televes cloud through a unique interface accessible from any device.

More information: mycloud.televes.com



TV DISTRIBUTION PROFESSIONAL EQUIPMENT

Ref.	Description	
SIGNAL GENERATORS		
IF SIMULATOR		
4008	SAT Simulator 950...2150MHz	1
TRIPLE LIGHT SOURCE		
2340	OPS3L Triple Light Source (1310, 1490 & 1550nm)	1
NOISE GENERATOR		
593001	SAT Simulator and Noise Generator 5...3000MHz	1
Ref.	Description	
OPTICAL FIBER		
FUSION KITS		
Electric arc splice		
232105	F.O Kit: Arc Fusion Splicer + Stripper + Cleaver + Power adapter + Spare set of electrodes + Tweezers + Carrying Case	1
Mechanical splice		
2341	F.O Kit: Connector & Mechanical Splice + Stripper (Ref. 2324) + Cleaver (Ref. 232301) + Cleaning Tools	1
TOOLS		
2322	Fiber Mechanical Splicer	1
232301	Cleaver of Fiber Optics	1
232310	Kevlar® Scissors for Optical Fibers	1
2324	Precision Stripper for Optical Fibers, with 4 working areas	1
2325	Round cable stripper for multifiber cables, data cables and coaxial cables	1
232910	Cleaner for Fiber Optic Connectors	1
ACCESSORIES		
2327	Splicing Protection Sleeve 60mm for FO fusion	200
232701	Splicing Protection Sleeve 43mm for FO fusion	200
232702	Splicing Protection Enclosure 101mm for FO fusion	100
232710	F.O. Cleaning Kit: 50 isopropyl alcohol Wipes + 25 Sticks	1
232753	Dry F.O. Cleaning wipes - 280 pcs/box	1/60
2328	Fiber Mechanical Splice	10
2329	Connector of Fiber Optics "SC/APC" (with mounting tool)	10

Televes



▲ 4008



▲ 2340



▲ 593001



▲ 2341



▲ 232702



▲ 2328



▲ 232310



▲ 232910



▲ 2322



▲ 232105



▲ 232301

Televés
DATACOM

Networking and structured cabling products and solutions for data networks in commercial, hospitality and residential environments, aimed at the professional installer and integrator.





DATAKOM OPTICAL FIBER

Ref.	Description		
CABLES AND PATCH-CORDS			
MULTI-FIBER			
Tight buffer 250µm			
231414	FK16 Multi-fiber Cable 16 Single-mode Fibers Indoor/Outdoor UV Resistant LSFH Dca		1
231415	FK16 Multi-fiber Cable 16 Single-mode Fibers Indoor/Outdoor UV-resistant LSFH Dca		2000
231614	FK24 Multi-fiber Cable 24 Single-mode Fibers Indoor/Outdoor UV Resistant LSFH Dca		1
231615	FK24 Multi-fiber Cable 24 Single-mode Fibers Indoor/Outdoor UV-resistant LSFH Dca		2000
231714	FK48 Multi-fiber Cable 48 Single-mode Fibers Indoor/Outdoor UV Resistant LSFH Dca		1
231715	FK48 Multi-fiber Cable 48 Single-mode Fibers Indoor/Outdoor UV-resistant LSFH Dca		2000
4 FIBERS			
Tight buffer 250µm			
231942	FK4 Fiber Cable 4 single-mode Fibers Indoor LSFH Cca		500/1500
2 FIBERS			
Tight buffer 900µm			
231901	FK2 Fiber Cable 2 Single-mode Fibers Indoor LSFH Dca		300/1500
231902	FK2 Fiber Cable 2 Single-mode Fibers Indoor LSFH Dca		750
231905	FK2 Fiber Cable 2 Single-mode Fibers Indoor LSFH Dca		3000
232001	FK2 Fiber Cable 2 Single-mode Fibers Outdoor LSFH UV Resistant Dca		200/1000
232002	FK2 Fiber Cable 2 Single-mode Fibers Outdoor LSFH UV Resistant Dca		500
232005	FK2 Fiber Cable 2 Single-mode Fibers Outdoor LSFH UV Resistant Dca		3000
SINGLE-MODE (SM) PATCH CORDS			
With SC/APC connectors			
232602	F.O.Patch Cord Single-mode Indoor LSFH "SC/APC" 2m. Convertible to Pigtail (900µm)		25
232603	Pigtail (900µm) F.O.Patch Cord Single-mode Indoor LSFH "SC/APC" 1m		25
232610	F.O.Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 5m		1
232611	F.O.Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 10m		1
232612	F.O.Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 15m		1
232613	F.O.Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 20m		1
232614	F.O.Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 25m		1
232615	F.O.Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 30m		1
232616	F.O.Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 40m		1
232621	F.O.Patch Cord Single-mode Indoor LSFH "SC/APC" 2m (Bag B4)		1/10
232623	F.O.Patch Cord Single-mode Indoor LSFH "SC/APC" 0.5m (Bag B4)		1/20
232626	F.O.Patch Cord Single-mode Indoor LSFH "SC/APC" 1m (Bag B4)		1/20
232650	F.O.Duplex Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 5m		1
232651	F.O.Duplex Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 10m		1
232652	F.O.Duplex Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 15m		1
232653	F.O.Duplex Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 20m		1
232654	F.O.Duplex Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 25m		1
★ 232655	F.O.Duplex Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 35m		1
232656	F.O.Duplex Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 40m		1
232657	F.O.Duplex Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 55m		1
★ 232658	F.O.Duplex Patch Cord Single-mode Indoor LSFH Dca "SC/APC" 65m		1

Televes

F.O. CABLES

Fibre's tight buffer Ø 250µm



▲ 48 Fibres (23171x)



▲ 24 Fibres (23161x)



▲ 16 Fibres (23141x)



▲ 4 Fibres - Indoor (231942)

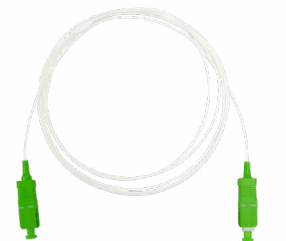
Fibre's tight buffer Ø 900µm



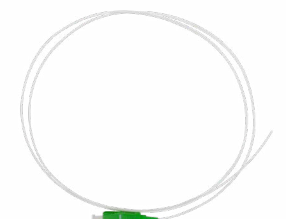
▲ 2 Fibres - Indoor (23190x)



▲ 2 Fibres - Outdoor (23200x)



▲ 232602



▲ 232603



▲ 232610



▲ 232655



DATAKOM OPTICAL FIBER

Ref.	Description		
CABLES AND PATCH-CORDS			
SINGLE-MODE (SM) PATCH CORDS			
With LC/APC connectors			
230608	Pigtail (900µm) F.O.Patch Cord Single-mode Indoor LSFH "LC/APC" 1m	●	1
232683	F.O.Patch Cord Single-mode Indoor LSFH "SC/APC" 3m	●	1
With LC/UPC connectors			
230609	Pigtail (900µm) F.O.Patch Cord Single-mode Indoor LSFH "LC/UPC" 1m	○	1
232662	F.O.Duplex Patch Cord Single-mode Indoor LSFH "LC/UPC" 2m	●	1
232672	F.O.Patch Cord Single-mode Indoor LSFH "LC/UPC" 2m	●	1
With FC/UPC connectors			
236101	F.O.Patch Cord Armoured Single-mode Outdoor LSFH UV Resistant "FC/UPC" 5m	●	1
236102	F.O.Patch Cord Armoured Single-mode Outdoor LSFH UV Resistant "FC/UPC" 10m	●	1
236103	F.O.Patch Cord Armoured Single-mode Outdoor LSFH UV Resistant "FC/UPC" 20m	●	1
236104	F.O.Patch Cord Armoured Single-mode Outdoor LSFH UV Resistant "FC/UPC" 30m	●	1
236105	F.O.Patch Cord Armoured Single-mode Outdoor LSFH UV Resistant "FC/UPC" 40m	●	1
236106	F.O.Patch Cord Armoured Single-mode Outdoor LSFH UV Resistant "FC/UPC" 50m	●	1
236107	F.O.Patch Cord Armoured Single-mode Outdoor LSFH UV Resistant "FC/UPC" 75m	●	1
236108	F.O.Patch Cord Armoured Single-mode Outdoor LSFH UV Resistant "FC/UPC" 100m	●	1
236110	F.O.Patch Cord Armoured Single-mode Outdoor LSFH UV Resistant "FC/UPC" 1m	●	1
Adapter cords			
232622	F.O.Patch Cord Single-mode Indoor LSFH "SC/APC-SC/UPC" 0.2m	●	1/5
232624	F.O.Patch Cord Single-mode Indoor LSFH "SC/APC-FC/UPC" 2m (Bag B4)	●	1/10
232625	F.O.Patch Cord Single-mode Indoor LSFH "SC/APC-SC/UPC" 0.4m	●	1
232627	F.O.Patch Cord Single-mode Indoor LSFH "SC/APC-LC/UPC" 2m	●	1
232628	F.O.Patch Cord Single-mode Indoor LSFH "LC/APC-SC/APC" 2m	●	1
236121	F.O.Patch Cord Armoured Single-mode Outdoor LSFH UV Resistant "SC/APC-FC/UPC" 1m	●	1
236122	F.O.Patch Cord Armoured Single-mode Outdoor LSFH UV Resistant "SC/APC-FC/UPC" 2m	●	1
MULTI-MODE (MM) PATCH CORDS			
With SC/PC connectors			
230901	Pigtail (900µm) F.O.Patch Cord Multi-mode OM3 Indoor LSFH "SC/PC" 2m	●	1
230911	Pigtail (900µm) F.O.Patch Cord Multi-mode OM4 Indoor LSFH "SC/PC" 2m	●	1
230920	F.O. Duplex Patch Cord Multi-mode OM3 Indoor LSFH "SC/PC" 2m	●	1
230930	F.O. Duplex Patch Cord Multi-mode OM4 Indoor LSFH "SC/PC" 2m	●	1
With LC/PC connectors			
230601	F.O.Patch Cord Multi-mode OM3 Indoor LSFH "LC/PC" 2m. Convertible to Pigtail (900µm)	●	1
230622	F.O.Duplex Patch Cord Multi-mode OM3 Indoor LSFH "LC/PC" 2m	●	1
230912	Pigtail (900µm) F.O.Patch Cord Multi-mode OM4 Indoor LSFH "LC/PC" 2m	●	1
230932	F.O.Duplex Patch Cord Multi-mode OM4 Indoor LSFH LC/PC 2m	●	1
Adapter cords			
230921	F.O.Duplex Patch Cord Multi-mode OM3 Indoor LSFH "LC/PC-SC/PC" 2m	●	1
230931	F.O.Duplex Patch Cord Multi-mode OM4 Indoor LSFH "LC/PC-SC/PC" 2m	●	1



▲ 232683



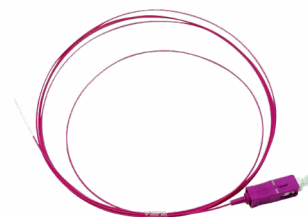
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▲ 236108



▲ 232628



▲ 230911



▲ 230931



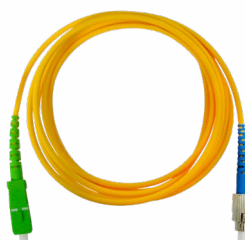
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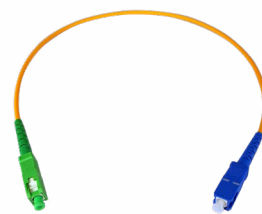
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▲ 236121



▲ 232624



▲ 232625

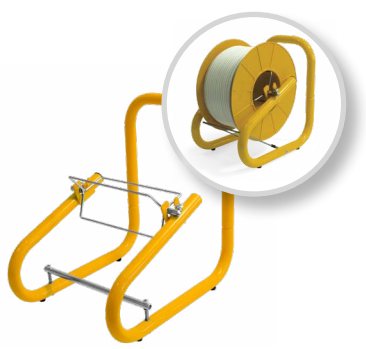


▲ 230601



DATACOM OPTICAL FIBER

Ref.	Description		
CABLES AND PATCH-CORDS			
ACCESSORIES			
Adapters			
233203	Simplex F.O. Adapter Single-Mode "SC" Female - "SC" Female, with Auto-blocking Cap, Plastic Box	●	25
★ 233205	Simplex F.O. Adapter Single-Mode "SC" Female - "SC" Female, with Internal Shutter, Plastic Box	●	30
233210	Duplex F.O. Adapter Single-Mode "SC" Female - "SC" Female, with Auto-blocking Cap	●	20/1000
233211	Duplex F.O. Adapter Multi-Mode "SC" Female - "SC" Female	●	20
233212	Duplex F.O. Adapter Single-Mode "LC" Female - "LC" Female, Plastic Box	●	25
233213	Duplex F.O. Adapter Multi-Mode "LC" Female - "LC" Female, Plastic Box	●	25
2354	Simplex F.O. Adapter Single-Mode "FC" Female - "FC" Female		5
2356	Simplex F.O. Adapter Single-Mode "FC" Female - "SC" Female		5
Dispensers			
212001	Coaxial Cable / Optical Fiber Dispenser, Small model (Plastic drums: Coaxial cable 100m and F.O. 200/300m)		1
212011	Coaxial Cable / Optical Fiber Dispenser, Large model (Plastic drums: Coaxial cable 250m and F.O. 500/750m)		1
Fixing			
200101	Velcro Tape for Cables 8m, Width: 20mm, Black (2 units)	●	1
200102	Velcro Flange for Cables, Width: 15mm, Black (10 units)	●	1



▼ 2120xx
(Cable drum not included)

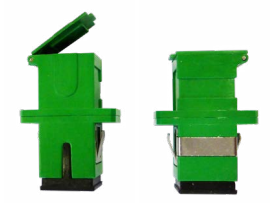


▲ 2354

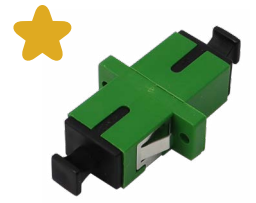


▲ 2356

Televes



▲ 233203



▲ 233205



▲ 233210



▲ 233211



▲ 233212



▲ 233213



DATAKOM OPTICAL FIBER

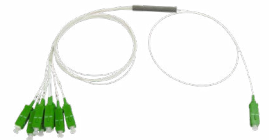
Ref.	Description	
OPTICAL DISTRIBUTION		
SPLITTERS		
SC/APC connection		
233710	Optical Splitter 1250...1650nm "SC/APC" 2W 4dB	1/10
233910	Optical Splitter 1250...1650nm "SC/APC" 4W 7dB	1/10
234410	Optical Splitter 1250...1650nm "SC/APC" 8W 10dB	1
234510	Optical Splitter 1250...1650nm "SC/APC" 16W 14dB	1
234610	Optical Splitter 1250...1650nm "SC/APC" 32W 17dB	1
FC/UPC connection		
235701	Optical Splitter 1250...1650nm "FC/UPC" 2W 4dB	1
235901	Optical Splitter 1250...1650nm "FC/UPC" 4W 7dB	1
236001	Optical Splitter 1250...1650nm "FC/UPC" 8W 10.1dB	1
SPLITTERS (PLC)		
233750	Optical Splitter, PLC Component, 1260...1650nm "SC/APC" 2W 4dB	1
233950	Optical Splitter, PLC Component, 1260...1650nm "SC/APC" 4W 7dB	1
234450	Optical Splitter, PLC Component, 1260...1650nm "SC/APC" 8W 10dB	1
234550	Optical Splitter, PLC Component, 1260...1650nm "SC/APC" 16W 14dB	1
234650	Optical Splitter, PLC Component, 1260...1650nm "SC/APC" 32W 17dB	1
ATTENUATORS		
SC/APC connection		
236410	Optical Attenuator 1310/1550nm "SC/APC" 2dB	1
236411	Optical Attenuator 1310/1550nm "SC/APC" 5dB	1
236412	Optical Attenuator 1310/1550nm "SC/APC" 10dB	1
236413	Optical Attenuator 1310/1550nm "SC/APC" 15dB	1
FC/UPC connection		
2364	Optical Attenuator 1310/1550nm "FC/UPC" 5dB	1
2365	Optical Attenuator 1310/1550nm "FC/UPC" 10dB	1
2366	Optical Attenuator 1310/1550nm "FC/UPC" 15dB	1
MULTIPLEXERS (WDM)		
234740	WDM Module Optical Multiplexer/Demultiplexer 1i/2o "SC/APC": GPON+RF: Data (1310/1490nm) - TV (1550nm)	1



▲ 233910



▲ 234610



▲ 234450



▲ 236413



▲ 2364



▲ 234740



DATAKOM
OPTICAL FIBER

Televes

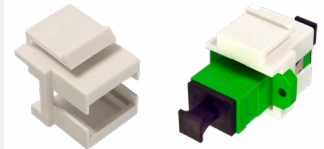
Ref.	Description	
OPTICAL DISTRIBUTION		
PATCH BOXES		
Without optical fiber		
231502	F.O. Patch/Splitting Box 2 to 4 Outs (2x"SC/APC" Female - Female Simplex adapters included)	1
With Dca optical fiber		
231520	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 15m on one end with dispenser box (2x"SC/APC" Female - Female Simplex adapters included)	1
231521	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 25m on one end with dispenser box (2x"SC/APC" Female - Female Simplex adapters included)	1
231522	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 40m on one end with dispenser box (2x"SC/APC" Female - Female Simplex adapters included)	1
231523	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 55m on one end with dispenser box (2x"SC/APC" Female - Female Simplex adapters included)	1
231524	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 70m on one end with dispenser box (2x"SC/APC" Female - Female Simplex adapters included)	1
231525	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 85m on one end with dispenser box (2x"SC/APC" Female - Female Simplex adapters included)	1
231526	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 100m on one end with dispenser box (2x"SC/APC" Female - Female Simplex adapters included)	1
231540	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 15m on one end (2x"SC/APC" Female - Female Simplex adapters included)	1
231541	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 25m on one end (2x"SC/APC" Female - Female Simplex adapters included)	1
231542	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 40m on one end (2x"SC/APC" Female - Female Simplex adapters included)	1
231543	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 55m on one end (2x"SC/APC" Female - Female Simplex adapters included)	1
★ 231544	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 65m on one end (2x"SC/APC" Female - Female Simplex adapters included)	1
★ 231545	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 75m on one end (2x"SC/APC" Female - Female Simplex adapters included)	1
★ 231546	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 85m on one end (2x"SC/APC" Female - Female Simplex adapters included)	1
★ 231547	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 100m on one end (2x"SC/APC" Female - Female Simplex adapters included)	1
★ 231548	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 10m on one end (2x"SC/APC" Female - Female Simplex adapters included)	1
★ 231549	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 20m on one end (2x"SC/APC" Female - Female Simplex adapters included)	1
★ 231550	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 30m on one end (2x"SC/APC" Female - Female Simplex adapters included)	1
★ 231551	F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Dca Fibers of 35m on one end (2x"SC/APC" Female - Female Simplex adapters included)	1
With Cca optical fiber		
231530	F.O. Patch Box 4 Outs: 4 Pre-terminated Cca Fibers of 15m on one end with dispenser box (4x"SC/APC" Female - Female Simplex adapters included)	1
231531	F.O. Patch Box 4 Outs: 4 Pre-terminated Cca Fibers of 25m on one end with dispenser box (4x"SC/APC" Female - Female Simplex adapters included)	1
231532	F.O. Patch Box 4 Outs: 4 Pre-terminated Cca Fibers of 40m on one end with dispenser box (4x"SC/APC" Female - Female Simplex adapters included)	1
231533	F.O. Patch Box 4 Outs: 4 Pre-terminated Cca Fibers of 55m on one end with dispenser box (4x"SC/APC" Female - Female Simplex adapters included)	1
231534	F.O. Patch Box 4 Outs: 4 Pre-terminated Cca Fibers of 70m on one end with dispenser box (4x"SC/APC" Female - Female Simplex adapters included)	1
231535	F.O. Patch Box 4 Outs: 4 Pre-terminated Cca Fibers of 85m on one end with dispenser box (4x"SC/APC" Female - Female Simplex adapters included)	1
231536	F.O. Patch Box 4 Outs: 4 Pre-terminated Cca Fibers of 100m on one end with dispenser box (4x"SC/APC" Female - Female Simplex adapters included)	1
OUTLETS/KEYSTONES		
★ 209911	Terminal Box for 1 RJ45 Connector or F.O. Keystone Module	5
233230	Keystone Module for F.O. Adapter "SC" Simplex or "LC" Duplex Female, Plastic Box	25/250
233231	F.O. Outlet: Keystone Module + Adapter "SC / APC" Female with Internal Shutter, Plastic Box	20/200
233232	F.O. Terminal Box+ Simplex Adapter "SC/APC" Female with Internal Shutter	5
233240	F.O. Outlet Kit:Keystone Module + Adapter "SC / APC" Female with Internal Shutter + Patch Cord Single-mode Pre-terminated LSFH Dca 10m	10
233241	F.O. Outlet Kit:Keystone Module + Adapter "SC / APC" Female with Internal Shutter + Patch Cord Single-mode Pre-terminated LSFH Dca 15m	8
233242	F.O. Outlet Kit:Keystone Module + Adapter "SC / APC" Female with Internal Shutter + Patch Cord Single-mode Pre-terminated LSFH Dca 25m	6



▲ 23152x / 23153x



▲ 23154x/23155x



▲ 233230

▲ 233231



▲ 233232



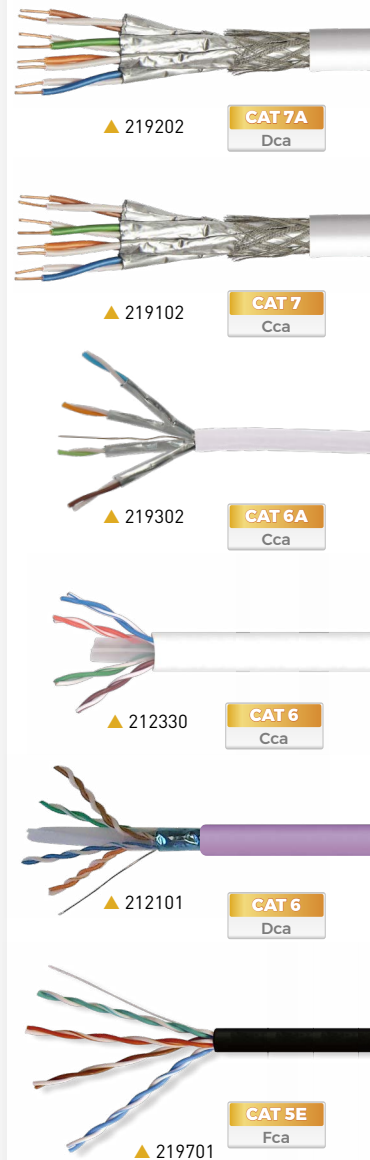
▲ 233242



▲ 209911

DATAKOM COPPER SOLUTIONS

Ref.	Description		
CABLES AND PATCH-CORDS			
CATEGORY 7A			
Copper (Cu)			
219202	Data Cable DK7000A S/FTP Cat 7A Dca Cu 23AWG LSFH Ø 7,7mm White	● ○	500
CATEGORY 7			
Copper (Cu)			
219102	Data Cable DK7000 S/FTP Cat 7 Cca Cu 23AWG LSFH Ø 7,4mm White	● ○	500
CATEGORY 6A			
Copper (Cu)			
219302	Data Cable DK6000A U/FTP Cat 6A Cca Cu 23AWG LSFH Ø 6,9mm White	● ○	500
219312	Data Cable DK6000A U/UTP Cat 6A Cca Cu 23AWG LSFH Ø 7,3mm Violet	● ●	500
219322	Data Cable DK6000A F/UTP Cat 6A Dca Cu 23AWG LSFH Ø 7,3mm Violet	● ●	500
CATEGORY 6			
Copper (Cu)			
212101	Data Cable DK6000 F/UTP Cat 6 Dca Cu 23AWG LSFH Ø 7,2mm Violet	● ●	500
212201	Data Cable DK6000 U/UTP Cat 6 Fca Cu 24AWG PE Ø 6,2mm Black	■ ●	305
2123	Data Cable DK6000 U/UTP Cat 6 Dca Cu 23AWG LSFH Ø 6,2mm Violet	■ ●	305
212302	Data Cable DK6000 U/UTP Cat 6 Dca Cu 23AWG LSFH Ø 6,2mm Violet	● ●	1000
212305	Data Cable DK6000 U/UTP Cat 6 Dca Cu 23AWG LSFH Ø 6,2mm White	● ○	500
212310	Data Cable DK6000 U/UTP Cat 6 Dca Cu 24AWG LSFH Ø 6,0mm White	■ ○	305
212330	Data Cable DK6000 U/UTP Cat 6 Cca Cu 23AWG LSFH Ø 6,1mm White	● ○	500
CATEGORY 5E			
Copper (Cu)			
219701	Data Cable DK5000E U/UTP Cat 5E Fca Cu 24AWG PE Ø 5,5mm Black	■ ●	305



References		219202	219102	219302	219312	219322	212330	212101	2123	212302	212305	212310	212201	219701
Model		DK7000A	DK7000	DK6000A	DK6000A	DK6000A	DK6000	DK6000	DK6000	DK6000	DK6000	DK6000	DK6000	DK5000E
Shielding type		S/FTP	S/FTP	U/FTP	U/UTP	F/UTP	U/UTP	F/UTP	U/UTP	U/UTP	U/UTP	U/UTP	U/UTP	U/UTP
Category		7A	7	6A	6A	6A	6	6	6	6	6	6	6	5E
CPR Euroclass		Dca-s1a,d2,a1	Cca-s1a,d1,a1	Cca-s1a,d1,a1	Cca-s1a,d1,a1	Dca-s2,d2,a1	Cca-s1a,d1,a1	Dca-s2,d2,a1	Dca-s2,d2,a1	Dca-s2,d2,a1	Dca-s2,d2,a1	Fca	Fca	Fca
Transmission bandwidth	MHz	1500	1000	650	650	650	250	250	400	250	250	100	100	100
Transfer rate	Gbps	10	10	10	10	10	1	1	1	1	1	1	1	0,1
Conductor	Ø mm	0.58	0.55	0.55	0.55	0.55	0.54	0.55	0.55	0.55	0.51	0.51	0.51	0.50
	Material	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Electrolytic Cu
Conductor Type	AWG	23	23	23	23	23	23	23	23	23	24	24	24	24
Conductor isolation	Ø mm	1.43	1.30	1.30	1.10	1.14	0.99	1.14	1.02	0.92	0.95	0.95	0.95	0.95
	Material	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE
Filler	Crucifix	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Shielding foil	Material	A	A	A	No	A	No	A	No	No	No	No	No	No
Outer shielding braid	Material	CuSn	CuSn	No	No	No	No	No	No	No	No	No	No	No
	Ø mm	No	No	0,4	No	0,4	No	No	No	No	No	No	No	No
Ground cable	Material	No	No	CuSn	No	CuSn	No	No	No	No	No	No	No	No
	Ø mm	7.7	7.4	6.9	7.3	7.3	6.1	7.2	6.2	6.0	6.2	5.5	5.5	
Outer sheath	Material	LSFH	LSFH	LSFH	LSFH	LSFH	LSFH	LSFH	LSFH	LSFH	LSFH	LSFH	PE	PE
	Thickness (mm)	0.70	0.70	0.70	0.50	0.50	0.60	0.60	0.50	0.52	0.52	0.55	0.55	0.60
Rip cord		No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spark test	VAC	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Nominal impedance	Ohm	100	100	100	100	100	100	100	100	100	100	100	100	100
Max. conductor resistance	Ohm/100m	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Nominal speed	%	79	79	79	72	72	72	72	72	72	72	72	72	69

Shielding type	
U/UTP Unfoiled	U/FTP Foiled pairs
F/UTP Foiled cable	S/FTP Foiled pairs and foiled cable

Over Lapped Foil composition Environment	
A	Aluminium + Polyester

Other abbreviations	
Cu	Copper
CuSn	Tinned copper
PE	Polyethylene
LSFH	Low Smoke Free of Halogen

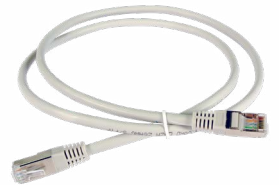


DATAKOM COPPER SOLUTIONS

Ref.	Description		
CABLES AND PATCH-CORDS			
PATCH-CORDS			
Category 6A			
209101	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 0.5m Grey (Bag B0)	●	1
209102	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 1m Grey (Bag B0)	●	1
209103	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 2m Grey (Bag B0)	●	1
209104	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 3m Grey (Bag B0)	●	1
209105	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 5m Grey (Bag B0)	●	1
209111	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 0.5m Grey	●	10
209112	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 1m Grey	●	10
209113	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 2m Grey	●	10
209114	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 3m Grey	●	10
209115	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 5m Grey	●	10
Category 6			
209002	Patch-cord RJ45 U/UTP Cat 6 Cu PVC 1m White (Bag B0)	○	1
209003	Patch-cord RJ45 U/UTP Cat 6 Cu PVC 2m White (Bag B0)	○	1
209004	Patch-cord RJ45 U/UTP Cat 6 Cu PVC 3m White (Bag B0)	○	1
209005	Patch-cord RJ45 U/UTP Cat 6 Cu PVC 5m White (Bag B0)	○	1
209011	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 0,5m White	○	10
209012	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 1m White	○	10
209013	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 2m White	○	10
209014	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 3m White	○	10
209016	Patch-cord RJ45 U/UTP Cat 6 Cu PVC 7m White	○	10
★ 209021	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 0,5m Blue	●	1
★ 209022	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 1m Blue	●	1
★ 209023	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 2m Blue	●	1
★ 209031	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 0,5m Green	●	1
★ 209032	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 1m Green	●	1
★ 209033	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 2m Green	●	1
★ 209041	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 0,5m Red	●	1
★ 209042	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 1m Red	●	1
★ 209043	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 2m Red	●	1
209301	Patch-cord RJ45 U/UTP Cat 6 Cu LSFH 0,3m White	○	1
ACCESSORIES			
200101	Velcro Tape for Cables 8m, Width: 20mm, Black (2 units)	●	1
200102	Velcro Flange for Cables, Width: 15mm, Black (10 units)	●	1



▲ 209101



▲ 209111



▲ 209004



▲ 209016



▲ 200102



▲ 209023



▲ 209033



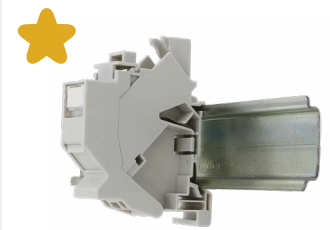
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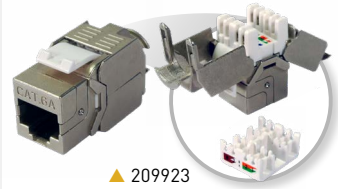
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DATAKOM COPPER SOLUTIONS

Ref.	Description	
CONNECTORS		
CATEGORY 6A		
★ 209501	Keystone Module RJ45 FTP Cat 6A Female. Grip assembly type, with DIN rail holder	20
209921	Data Connector RJ45 UTP Cat 6A Female. Wing-nut assembly type, White, Plastic Box	10
209922	Data Connector RJ45 UTP Cat 6A Male, Plastic Box	50
209923	Data Connector RJ45 FTP Cat 6A Female. Grip assembly type, Plastic Box	10
209924	Data Connector RJ45 FTP Cat 6A Male with Blue Protective Sleeve. Grip assembly type	25
★ 209925	Data Connector RJ45 UTP Cat 6A Female. Wing-nut assembly type, Black, Plastic Box	10
CATEGORY 6		
209901	Data Connector RJ45 UTP Cat 6 Female 90°/180°. Assembly with/without Tool, White, Plastic Box	15
209902	Data Connector RJ45 UTP Cat 6 Male, Plastic Box	50
209903	Data Connector RJ45 FTP Cat 6 Female. Grip assembly type, Plastic Box	10
209904	Data Connector RJ45 FTP Cat 6 Male, Plastic Box	50
209905	Data Connector RJ45 UTP Cat 6 Female. Wing-nut assembly type, Plastic Box	10
209906	Data Connector RJ45 UTP Cat 6 Male Pass-Through, Plastic Box	50
★ 209907	Data Connector RJ45 UTP Cat 6 Female 90°/180°. Assembly with/without Tool, Black, Plastic Box	15
209961	Data Connector RJ45 UTP Cat 6 Male with White Protective Sleeve, Plastic Box	25
209962	Data Connector RJ45 UTP Cat 6 Male with Grey Protective Sleeve, Plastic Box	25
★ 209965	Data Connector RJ45 UTP Cat 6 Male Pass-Through with White Protective Sleeve, Plastic Box	25
★ 209966	Data Connector RJ45 UTP Cat 6 Male Pass-Through with Grey Protective Sleeve, Plastic Box	25
KITS		
209401	Kit – Carrying case which includes: 50xRJ45 UTP Cat 6 Male connectors (ref. 209902), 15xRJ45 UTP Cat 6 Female connectors (ref. 209901), 1xCrimping tool (ref. 209801) and 10xVelcros flange (ref. 200102)	1
209402	Kit – Carrying case which includes: 150xRJ45 male connectors Cat6 UTP pass through (ref. 209906), 1xAutomatic crimping tool for male connectors pass through and non-pass through (ref. 209802) and 10xVelcros flange (ref. 200102)	1
Ref.	Description	
TOOLS		
209801	Crimping Tool for RJ45/RJ11/RJ12 and 4P4C/4P2C Male Connectors	1
209802	Crimping Tool with Automatic Cutting for pass-through and non-pass through RJ45 Male Connectors	1
209811	Termination Tool for RJ45 Female Connectors	1
2145	Professional Cable Stripper for Coaxial Cable and Data Cable	10
2162	Cable Stripper for Coaxial Cable and Data Cable (Bag B2)	1
2174	Professional Tool for Data Cable Mounting	1/20
2325	Round cable stripper for multifiber cables, data cables and coaxial cables	1
Ref.	Description	
DATA DISTRIBUTION		
PATCH BOXES		
546501	Passive Multiplexer "RJ45" Cat 6 1 Male - 9 Females, with 0.3m LSFH Lead	1
OUTLETS		
★ 209530	Face Plate White for Data/Phone Outlet 45x45mm	25
★ 209531	Face Plate White for 2 Data/Phone Outlets 45x45mm	25
209910	Data Terminal Box with 1 UTP Cat 6 Female RJ45 Connector	5
★ 209911	Terminal Box for 1 RJ45 Connector or F.O. Keystone Module	5



▲ 209501



▲ 209923



▲ 209925



▲ 209924

▲ 209904



▲ 209906



▲ 209907



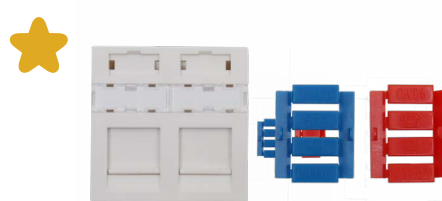
▲ 209965



▲ 209966



▲ 209530



▲ 209531



▲ 209402



DATAKOM RACKS AND CABINETS

Ref.	Description	
19" RACKS		
RACKS		
600x450mm		
533105	19" Rack Cabinet 6RU (+2RU extra). Glazed Door and Accessible from the side. Dimensions: 600x370x450mm. Wall/Ground Mount (Disassembled)	1
533106	19" Rack Cabinet 6RU (+2RU extra). Glazed Door and Accessible from the side. Dimensions: 600x370x450mm. Wall/Ground Mount	1
533107	19" Rack Cabinet 8RU (+2RU extra). Glazed Door and Accessible from the side. Dimensions: 600x460x450mm. Wall/Ground Mount (Disassembled)	1
533108	19" Rack Cabinet 8RU (+2RU extra). Glazed Door and Accessible from the side. Dimensions: 600x460x450mm. Wall/Ground Mount	1
533112	19" Rack Cabinet 13RU (+2RU extra). Glazed Door and Accessible from the side. Dimensions: 600x682x450mm. Wall/Ground Mount (Disassembled)	1
533113	19" Rack Cabinet 13RU (+2RU extra). Glazed Door and Accessible from the side. Dimensions: 600x682x450mm. Wall/Ground Mount	1
533114	19" Rack Cabinet 15RU (+2RU extra). Glazed Door and Accessible from the side. Dimensions: 600x771x450mm. Wall/Ground Mount (Disassembled)	1
533115	19" Rack Cabinet 15RU (+2RU extra). Glazed Door and Accessible from the side. Dimensions: 600x771x450mm. Wall/Ground Mount	1



▲ 533105/06



▲ 533107/08



▲ 533112/13



▲ 533114/15



In case of references that are supplied disassembled

REF.	DIMENSIONS	N.º RU	MOUNTING	Max. LOAD CAPACITY (kg)	SUPPLY	LOCK	CABLE GUIDE	WHEEL COMPATIBLE	COMPATIBLE FAN
533105	600x450 mm	6U + 2U	Wall and ground	60	Disassembled	Basic, Front	Horizontal	-	533174
533106	600x450 mm	6U + 2U	Wall and ground	60	Assembled	Basic, Front	Horizontal	-	533174
533107	600x450 mm	8U + 2U	Wall and ground	60	Disassembled	Basic, Front	Horizontal	-	533174
533108	600x450 mm	8U + 2U	Wall and ground	60	Assembled	Basic, Front	Horizontal	-	533174
533112	600x450 mm	13U + 2U	Wall and ground	60	Disassembled	Basic, Front	Horizontal	-	533174
533113	600x450 mm	13U + 2U	Wall and ground	60	Assembled	Basic, Front	Horizontal	-	533174
533114	600x450 mm	15U + 2U	Wall and ground	60	Disassembled	Basic, Front	Horizontal	-	533174
533115	600x450 mm	15U + 2U	Wall and ground	60	Assembled	Basic, Front	Horizontal	-	533174
533116	600x600 mm	15U + 2U	Wall and ground	60	Assembled	Basic, Front	Horizontal	-	533175
533118	600x600 mm	18U	Ground	1.000	Assembled	Professional, Front and Rear	-	✓	533175
533122	600x600 mm	22U	Ground	1.000	Assembled	Professional, Front and Rear	-	✓	533175
533127	600x600 mm	27U	Ground	1.000	Assembled	Professional, Front and Rear	-	✓	533175
533132	600x600 mm	32U	Ground	1.000	Assembled	Professional, Front and Rear	-	✓	533175
533137	600x600 mm	37U	Ground	1.000	Assembled	Professional, Front and Rear	-	✓	533175
533134	600x800 mm	32U	Ground	1.000	Assembled	Professional, Front and Rear	-	✓	533176
533139	600x800 mm	37U	Ground	1.000	Assembled	Professional, Front and Rear	-	✓	533176
533142	600x800 mm	42U	Ground	1.000	Assembled	Professional, Front and Rear	-	✓	533176
533144	800x800 mm	42U	Ground	1.000	Assembled	Professional, Front and Rear	Vertical	✓	533176
533145*	800x800 mm	42U	Ground	1.000	Assembled	Professional, Front and Rear	Vertical	✓	533176
533146*	800x1000 mm	42U	Ground	1.000	Assembled	Professional, Front and Rear	Vertical	✓	533176
533147	800x1000 mm	42U	Ground	1.000	Assembled	Professional, Front and Rear	Vertical	✓	533176

All: CE Marking | IP20 Code | RAL 9004

* Perforated doors

DATAKOM RACKS AND CABINETS

Ref.	Description	
19" RACKS		
RACKS		
600x600mm		
★ 533116	19" Rack Cabinet 15RU (+2RU extra). Glazed Door and Accessible from the side. Dimensions: 600x771x600mm. Wall/Ground Mount	1
533118	19" Rack Cabinet 18RU. Glazed Door and Accessible from the side. Dimensions: 600x942x600mm. Ground Mount	1
533122	19" Rack Cabinet 22RU. Glazed Door and Accessible from the side. Dimensions: 600x1120x600mm. Ground Mount	1
533127	19" Rack Cabinet 27RU. Glazed Door and Accessible from the side. Dimensions: 600x1342x600mm. Ground Mount	1
533132	19" Rack Cabinet 32RU. Glazed Door and Accessible from the side. Dimensions: 600x1564x600mm. Ground Mount	1
533137	19" Rack Cabinet 37RU. Glazed Door and Accessible from the side. Dimensions: 600x1787x600mm. Ground Mount	1
600x800mm		
533134	19" Rack Cabinet 32RU. Glazed Door and Accessible from the side. Dimensions: 600x1570x800mm. Ground Mount	1
533139	19" Rack Cabinet 37RU. Glazed Door and Accessible from the side. Dimensions: 600x1790x800mm. Ground Mount	1
533142	19" Rack Cabinet 42RU. Glazed Door and Accessible from the side. Dimensions: 600x2010x800mm. Ground Mount	1
800x800mm		
533144	19" Rack Cabinet 42RU. Glazed Door and Accessible from the side. Dimensions: 800x2010x800mm. Ground Mount	1
533145	19" Rack Cabinet 42RU. Perforated doors (double front, single rear) and Accessible from the side. Dimensions: 800x2010x800mm. Ground Mount	1
800x1000mm		
533146	19" Rack Cabinet 42RU. Perforated doors (double front, single rear) and Accessible from the side. Dimensions: 800x2010x1000mm. Ground Mount	1
533147	19" Rack Cabinet 42RU. Glazed Door and Accessible from the side. Dimensions: 800x2010x1000mm. Ground Mount	1
PANELS		
Patch panels		
533150	Panel for Rack 19" 1RU, Up to 24 "F" connectors	1
533151	Panel for Rack 19" 1RU, Up to 24 "RJ45" connectors. UTP compatible	1
533153	Panel for Rack 19" 1RU, Up to 2x7 "F" connectors (suitable for T.OX modules)	1
533180	Patch Panel for Rack 19" 1RU, With 24 "RJ45" Cat 6 UTP connectors	1
533181	Patch Panel for Rack 19" 1RU, With 24 "RJ45" Cat 6A FTP connectors	1
533183	Panel for Rack 19" 1RU, Up to 24 "SC" Duplex or "LC" Quad connectors	1
533187	Panel for Rack 19" 1RU, Up to 24 "RJ45" connectors with cable holder. UTP/FTP compatible	1
★ 533230	Panel for Rack 19" 1RU, Up to 26 "F" connectors	1
Organizing panels		
533158	Cable Management Panel for Rack 19" 1RU, 5 Rings of 80mm	1
533159	Cable Management Panel for Rack 19" 1RU, 1 Hole with Brush Strip and Rear Support	1
533160	Cable Management Panel for Rack 19" 1RU, Front Cover	1
533186	DIN Rail Panel for Rack 19" 3RU, 24 Poles	1
Blank panels		
533161	Blank Panel for Rack 19" 1RU	1
533162	Blank Panel for Rack 19" 2RU	1
TRAYS AND SPLICE BOXES		
533152	Splice Box for Rack 19" 1RU, Up to 24 "SC" Simplex or "LC" Duplex connectors (Depth 226mm)	1
533157	Splice Box for Rack 19" 2RU, Up to 48 "SC" Simplex or "LC" Duplex connectors (Depth 226mm)	1
533168	Sliding Tray for Rack 19" 1RU (compatible with 450/600mm deep racks). Depth: 350mm. Sliding length: 225mm	1
533169	Sliding Tray for Rack 19" 1U (compatible with 800/1000mm deep racks). Depth: 550mm. Sliding length: 390mm	1
533182	Splice Box for Rack 19" 1RU, Up to 24 "SC" Duplex or "LC" Quad connectors (Depth 226mm)	1
533185	Fixed tray for Rack 19" 2RU (Depth 350mm)	1
533201	LGX rack mount for Rack 19" 1RU, Up to 3 LGX modules	1



▲ 533116



▲ 533118



▲ 533127



▲ 533181



▲ 533186



▲ 533230



▲ 533169



▲ 533157



DATAKOM RACKS AND CABINETS

Ref.	Description	
19" RACKS		
VENTILATION		
533005	Thermostat with NO Contact 0...60°C for Rack 19"	1
533174	Individual Top Fan for Rack 19", 195m3/h	1
533175	Top Tray with 2 Fans for Rack 19" and 600mm depth, 390m3/h	1
533176	Top Tray with 4 Fans for Rack 19" and 800mm or 1000mm depth, 780m3/h	1
POWER SUPPLY		
533010	SAI/UPS 1600VA/1000W ECO 8 IEC C13 Outputs	1
533011	19" Rack Support for UPS (Ref.533010), 2U	1
ACCESSORIES		
★ 533167	Vertical Cable Organizer for Rack 19" 42RU, 9 Rings of 70mm	1
533170	Screw Kit for Rack 19": Screw with washer and nut (50 units). Plastic Box	1
533171	Kit for Rack 19": 4 Wheels and Screws. Wheels compatible with 18U racks or larger.	1
533172	Rubber cap for splice box - "SC" Simplex or "LC" Duplex	24
533173	Side door lock for 19" Rack, with 2 keys	1
Ref.	Description	
10" RACKS		
★ 533104	10" Rack Cabinet 6RU (+2RU extra). Glazed Door and Accessible from the side. Dimensions: 350x371x300mm. Wall/Ground Mount	1
546601	Closed Main Terminal Enclosure for Data/Coaxial/Fiber Distribution (Up to 48 connections)	1
Ref.	Description	
RACK FRAMES		
533101	Rack frame from 10" to 19" 8RU. Wall or perforated plate installation	1

Televes



▲ 533174



▲ 533176



▲ 533010



▲ 533011



▲ 533167



DATAKOM RACKS AND CABINETS

Ref.	Description	
HEADEND CABINETS		
CABINETS		
5749	Outdoor Lockable Cabinet (IP66 Standard), Dimensions: 600x380x210mm	1
5893	Indoor Lockable Cabinet with Mounting Plate, Dimensions: 300x400x200mm	1
589301	Indoor Lockable Cabinet with Mounting Plate, Dimensions: 400x400x200mm	1
589302	Indoor Lockable Cabinet with Mounting Plate, Dimensions: 400x600x200mm	1
589303	Indoor Lockable Cabinet with Mounting Plate, Dimensions: 600x600x200mm	1
589304	Indoor Lockable Cabinet with Mounting Plate, Dimensions: 600x800x200mm	1
PERFORATED PLATES		
5894	Perforated Mounting Plate 300x400mm, Distance from the wall 19mm	1/15
589401	Perforated Mounting Plate 400x400mm, Distance from the wall 19mm	1/15
589402	Perforated Mounting Plate 400x600mm, Distance from the wall 19mm	1/10
Ref.	Description	
ENCLOSURES		
FIBER SPLITTING ENCLOSURES		
231301	Splitting Terminal Enclosure for F.O., Indoor (Up to 16 fibers)	1
231302	Splitting Terminal Enclosure for F.O., Indoor (Up to 48 fibers)	1
231303	Splitting Terminal Enclosure for F.O., Indoor and Outdoor (Up to 24 fibers)	1
231304	Ultra-Compact Splitting Terminal Enclosure for F.O., Indoor (Up to 12 fibers)	1
231305	Extension Frame for Ultra-Compact Splitting Terminal Enclosure for F.O.(+12 fibers)	1
231310	Splitting Terminal Enclosure for F.O., Indoor (Up to 8 fibers)	1
233002	Main Terminal Enclosure for F.O., Indoor (Up to 48 "SC" Simplex or "LC" Duplex connectors)	1
233003	Stackable Main Enclosure for F.O., Indoor (Up to 48 "SC" Simplex or "LC" Duplex connectors), Steel	1
★ 233004	Stackable Main Enclosure for F.O., Indoor (Up to 48 "SC" Simplex or "LC" Duplex connectors), ABS	1
NETWORK ENCLOSURES		
546610	Open Main Terminal Panel for Data/Coaxial/Fiber Distribution (Up to 24 connections)	1
546701	Data/Coaxial/Fiber Network Terminal Enclosure with Flexible Front Frame	1
546702	Data/Coaxial/Fiber Network Terminal Enclosure	1
546801	Network Enclosure for Data/Coax/Fiber (450x450x150)	1
ACCESSORIES		
233013	F.O. Organizer up to 24 fusions for Splitting Enclosures (compatible with ref.233003)	1
233230	Keystone Module for F.O. Adapter "SC" Simplex or "LC" Duplex Female, Plastic Box	25/250
233231	F.O. Outlet: Keystone Module + Adapter "SC / APC" Female with Internal Shutter, Plastic Box	20/200
546620	Coaxial Adapter Support "F" Female - "F" Female, for Panels (Refs. 546602 and 546610)	10



▲ 5893



▲ 231303



▲ 231304



▲ 233003



▲ 233004

HDMI DISTRIBUTION

Ref.	Description	
CABLES		
494501	HDMI Cable Male-Male 1.5m Black (Blister T1)	● 1/8
494502	HDMI Cable Male-Male 3m Black (Blister T2)	● 1/10
494503	HDMI Cable Male-Male 5m Black (Blister T2)	● 1/10
494505	HDMI Cable Male-Male 1.5m Black (Bag)	● 1/100



▲ 494501



▲ 546801



DATAKOM NETWORKING

Televes

Ref.	Description	
NETWORK ELECTRONICS		
ROUTERS		
769110	Network Manager: Router and Firewall, 4x Gb Ethernet	1
769111	Network Manager: Router and Firewall, 6x Gb Ethernet + 2x SFP	1
769122	Router 16x Gb Ethernet + 2x SFP+, 19" Rack Mount, 1U	1
SWITCHES		
Managed		
768150	Industrial Ethernet Switch L2+: 8x Gb Ethernet (PoE+, 240W) + 2x SFP (1 Gbps), -40...+75°C (without PSU)	1
769140	Ethernet Switch L2+: 8x Gb Ethernet (PoE+, 130W) + 2x SFP (1 Gbps)	1
769141	Ethernet Switch L2+: 24x Gb Ethernet (PoE+, 370W) + 4x Gb Ethernet/SFP Combo	1
769144	Ethernet Switch L2+: 24x Gb Ethernet + 4x SFP (1 Gbps)	1
769145	Ethernet Switch L2+: 48x Gb Ethernet + 6x SFP+ (10 Gbps)	1
★ 769146	Ethernet Switch L2+: 48x Gb Ethernet (PoE+, 370W) + 6x SFP (10 Gbps)	1
769147	Ethernet Switch L2+: 8x Gb Ethernet + 2x SFP (1 Gbps)	1
769148	Ethernet Switch L3: 48x Gb Ethernet + 6x SFP+ (10Gbps)	1
★ 769149	Ethernet Switch L3: 8x Gb Ethernet + 24x SFP (1 Gbps) + 6x SFP+ (10 Gbps)	1
★ 769152	Ethernet Switch L2+: 8x Gb Ethernet/SFP Combo + 16x SFP (1 Gbps) + 4x SFP+ (10 Gbps)	1
Unmanaged		
768110	Ethernet Switch L2, Unmanaged: 5x 10/100/1000 Mbps	1
768111	Ethernet Switch L2, Unmanaged: 8x 10/100/1000 Mbps	1
768112	Ethernet Switch L2, Unmanaged: 8x Gb Ethernet (Long range PoE+, 120W) + 2x Gb Ethernet	1
★ 768115	Ethernet Switch L2, Unmanaged: 24x Gb Ethernet + 2x SFP (1 Gbps)	1
★ 768116	Ethernet Switch L2, Unmanaged: 24x Gb Ethernet (PoE+, 370W)+ 2x SFP (1 Gbps)	1
768121	Industrial Ethernet Switch L2, Unmanaged: 8x 10/100/1000 Mbps, -40...+75°C (without PSU)	1
SFP TRANSCEIVERS		
769150	SFP Transceiver 1GbE, 2 MMF (LC/PC), 850nm, 500m	1
769210	SFP Transceiver 1GbE 2 SMF "LC/UPC", 1310nm	1
769212	Kit: 2 SFP Transceiver 1GbE, SMF "LC/UPC", 1310+1490nm	1
769214	SFP+ Transceiver 10GbE, 2 SMF "LC/UPC", 1310nm, 10km	1
769412	SFP+ Transceiver 10GbE for OLT512, 2 SMF "LC/UPC"	1
MEDIA CONVERTERS		
769215	RJ45-SFP Media Converter SMF/MMF, SFPs 769210/2 compatible	1
769216	RJ45-F.O. Media Converter SMF, TX: 1310nm, RX: 1550nm	1
769217	RJ45-F.O. Media Converter SMF, TX: 1550nm, RX: 1310nm	1

Ref.	Description	
WIFI ACCESS POINTS		
WAVEDATA SERIES		
WaveData Access Points		
769001	Indoor Wireless Access Point WaveData: 1x Ethernet WAN (PoE), 1x Ethernet LAN, 1x USB 3.0, WLAN b/g/n/ac (option Low Power WiFi)	1
769002	Indoor Wireless Access Point WaveData: 1x F.O. SFP, 1x Ethernet LAN, 1x USB 3.0, WLAN b/g/n/ac (option Low Power WiFi)	1
769011	Outdoor Wireless Access Point WaveData: 1x Ethernet WAN (PoE), 1x Ethernet LAN, 1x USB 3.0, WLAN b/g/n/ac	1
Accessories		
640301	Wall Mount for CoaxData/CoaxBox/WaveBox	1

Ref.	Description	
MANAGEMENT AND MONITORING		
769030	WaveBox device: Managing and monitoring the WaveData network	1
769112	Network Manager: Hotspot, 4x Gb Ethernet	1



▲ 769110



▲ 769111



▲ 769146



▲ 769148



▲ 768111



▲ 768116



▲ 769001



▲ 769011



▲ 769215



▲ 769216



DATAKOM PROFESSIONAL EQUIPMENT

Ref.	Description	
OPTICAL FIBER		
FUSION KITS		
Electric arc splice		
232105	F.O Kit: Arc Fusion Splicer + Stripper + Cleaver + Power adapter + Spare set of electrodes + Tweezers + Carrying Case	1
Mechanical splice		
2341	F.O Kit: Connector & Mechanical Splice + Stripper (Ref. 2324) + Cleaver (Ref. 232301) + Cleaning Tools	1
SIGNAL GENERATORS		
2340	OPS3L Triple Light Source (1310, 1490 & 1550nm)	1
TOOLS		
2322	Fiber Mechanical Splicer	1
232301	Cleaver of Fiber Optics	1
232310	Kevlar® Scissors for Optical Fibers	1
2324	Precision Stripper for Optical Fibers, with 4 working areas	1
2325	Round cable stripper for multifiber cables, data cables and coaxial cables	1
232910	Cleaner for Fiber Optic Connectors	1
ACCESSORIES		
2327	Splicing Protection Sleeve 60mm for FO fusion	200
232701	Splicing Protection Sleeve 43mm for FO fusion	200
232702	Splicing Protection Enclosure 101mm for FO fusion	100
232710	F.O. Cleaning Kit: 50 isopropyl alcohol Wipes + 25 Sticks	1
232753	Dry F.O. Cleaning wipes - 280 pcs/box	1/60
2328	Fiber Mechanical Splice	10
2329	Connector of Fiber Optics "SC/APC" (with mounting tool)	10



▲ 2341



▲ 2340



▲ 2322



▲ 232702



▲ 2329



▲ 2324



▲ 232310



▲ 232301



▲ 232105



▲ 232910



DATA COM
PROFESSIONAL EQUIPMENT

Ref.	Description	
FIELD STRENGTH METERS		
H30CRYSTAL		
Meters		
593601	H30Crystal: DVB-S/S2 + DVB-T, F.O. (Smartphone Armband included)	1
593602	H30Crystal: DVB-S/S2 + DVB-T/T2, F.O. (Smartphone Armband included)	1
593603	H30Crystal: DVB-S/S2 + DVB-C, F.O. (Smartphone Armband included)	1
593604	H30Crystal: DVB-S/S2 + DVB-T/T2 + DVB-C, F.O. (Smartphone Armband included)	1
593605	H30Crystal FULL: Full DVB (-S/S2 + -T/T2 + -C), F.O. + IPTV Option + WiFi 2,4/5 GHz Option + HEVC display + Coaxial Cable Lead + Carrying Case (Smartphone Armband included)	1
593621	H30Crystal: DVB-S/S2 + DVB-T, Selective F.O. (Smartphone Armband included)	1
593622	H30Crystal: DVB-S/S2 + DVB-T/T2, Selective F.O. (Smartphone Armband included)	1
593624	H30Crystal: DVB-S/S2 + DVB-T/T2 + DVB-C, Selective F.O. (Smartphone Armband included)	1
593625	H30Crystal FULL: Full DVB (-S/S2 + -T/T2 + -C), Selective F.O. + IPTV Option + WiFi 2,4/5 GHz Option + HEVC display + Coaxial Cable Lead + Carrying Case (Smartphone Armband included)	1
Options		
593231	Option DVB-T	1
593232	Option DVB-T2 (DVB-T required)	1
593233	Option DVB-C	1
593234	Option dCSS	1
593235	Option Extended Terrestrial Input to 120dBµV	1
593236	Option Analogue A/V Display (Format Adapters and Protective Sleeve included)	1
593250	Option WiFi Analyzer (2,4/5GHz)	1
593251	Option IPTV Analyzer	1
593252	Option HEVC Display	1
Accessories		
593201	Protective Sleeve	1
593202	Replacement Battery	1
593203	Power Supply Unit 12V - 2A All Plugs	1
593205	Ports Protector	1
593239	Carrying Case	1
994101	Car Lighter-type 12V Charger adapter Cable, 1.5m	1/10
MOSAIQ6		
Meters		
596101	MOSAIQ6: DVB-T/T2 + DVB-S/S2/SX + DVB-C, CI, F.O. (Carrying Bag included)	1
596102	MOSAIQ6: DVB-T/T2 + DVB-S/S2/SX + DVB-C, CI, F.O. (Carrying Case included)	1
596105	MOSAIQ6 Advance: DVB-T/T2/S/S2/SX/C, CI, F.O., WiFi Analyzer, Analogue Measures, DAB/DAB+, 4K UHD (Carrying Bag included)	1
596111	MOSAIQ6: DVB-T/T2 + DVB-S/S2/SX + DVB-C, CI, Selective F.O. Interface (CWDM Filter) (Carrying Bag included)	1
596112	MOSAIQ6: DVB-T/T2 + DVB-S/S2/SX + DVB-C, CI, Selective F.O. Interface (Carrying Case included)	1
596115	MOSAIQ6 Advance: DVB-T/T2/S/S2/SX/C, CI, Selective F.O. Interface (CWDM Filter), WiFi Analyzer, Analogue Measures, DAB/DAB+, 4K UHD (Carrying Bag included)	1
Options		
596201	Option GPS Drive Test	1
596202	Option WiFi Analyzer (2,4/5GHz)	1
596203	Option Analogue Measures	1
596204	Option DAB/DAB+	1
596205	Option 4K - Ultra High Definition (UHD)	1
Accessories		
596210	Stand-alone, field replaceable battery	1
596211	Carrying Bag	1
596212	Adapter "N" Male - "F" Female	1
596213	Screen Protector	1
596214	Carrying Case	1

Televes

H30 CRYSTAL
FULL VERSION






▲ 593605



▲ 593239



-  ANALOGUE MEASURES
-  DAB/DAB+
-  ULTRA HIGH DEFINITION
-  WIFI ANALYZER

▲ 596105



▲ 596214



DATAKOM TELEPHONY (VOIP)

Ref.	Description	
IP PBX		
770146	VOIP PBX Phone System (up to 50 simultaneous calls)	1
770147	VOIP PBX Phone System (up to 200 simultaneous calls)	1
Ref.	Description	
TERMINALS		
IP		
770101	Wi-Fi Terminal with dual-band Wi-Fi support 802.11a/b/g/n, 2 SIP accounts, 2 lines, 2.4" colour LCD screen	1
770110	IP Terminal with 1 SIP account, 3 XML keys, Backlit LCD screen, Black	1
770120	PoE IP Terminal with 2 SIP accounts, 3 XML keys, Backlit LCD screen, Black	1
770130	PoE Operator IP Terminal with 6 SIP accounts, 12 line keys, 5 XML keys, 4.3" colour LCD screen, Black	1
770150	Extension Module for Operator IP Terminal with 20 programmable keys, 2 navigation keys, LCD screen, Black	1
ANALOGUES		
770301	Analogue Terminal with 4 direct keys for one touch connection, Black	● 1
770302	Analogue Terminal with 4 direct keys for one touch connection, White	○ 1
★ 770305	Compact Analogue Terminal, Black	● 1
★ 770306	Compact Analogue Terminal, White	○ 1



▲ 770146



▲ 770147



▲ 770120



▲ 770302



▲ 770305

HOSPITALITY

Efficient and ubiquitous internet access in a high capability multiservice network infrastructure.





HOSPITALITY FIBREDATA SERIES (GPON)

Ref.	Description	
GPON HEADENDS		
OLT MODULES		
769403	OLT512EVO: 8x PON + 4x SFP+ 10Gb Ethernet + 4x Gb Ethernet (Up to 512 users) Two Hot-swappable Redundant Embedded Power Supplies included	1
769420	Modular OLT3072, for 3 16x PON cards and 2x 10Gb switch cards, (Up to 3072 users) AC/DC Adapter included	1
769421	2x 10Gb Switch Card (for OLT3072, Ref. 769420)	1
769422	16x PON Card (for OLT3072, Ref. 769420)	1
POWER SUPPLY UNIT		
769601	Double Power Supply Unit -48Vdc. 19" Rack Mount, 1RU (for OLT)	1
SFP TRANSCEIVERS		
769150	SFP Transceiver 1GbE, 2 MMF (LC/PC), 850nm, 500m	1
769212	Kit: 2 SFP Transceiver 1GbE, SMF "LC/UPC", 1310+1490nm	1
★ 769214	SFP+ Transceiver 10GbE, 2 SMF "LC/UPC", 1310nm, 10km	1
769410	SFP Transceiver GPON B+, 1 Fiber "SC/UPC", 1490nm	1
769411	SFP Transceiver 1GbE, "RJ45"	1
769412	SFP+ Transceiver 10GbE for OLT512, 2 SMF "LC/UPC"	1
769413	SFP Transceiver GPON C+, 1 Fiber "SC/UPC"	1
769414	SFP Transceiver GPON C+ for OLT512EVO, 1 Fiber "SC/UPC"	1
★ 769415	SFP Transceiver GPON B+ for OLT512EVO, 1 Fiber "SC/UPC"	1
Ref.	Description	
GPON MONITORING		
769130	Server + Monitoring Software Tool + Licences	1
769131	Monitoring Software Tool + Licences	1
769132	Lite Server + Monitoring Software Tool + Licences (up to 128 devices)	1



OLT512EVO

SPECIALLY DESIGNED FOR
HOSPITALITY ENVIRONMENTS



▶ OLT512EVO

The OLT512EVO headend has been developed at Televes to meet the needs of the hotelier. An advanced solution to provide up to 16 services per ONT, allowing hotels to offer a wider range of entertainment options to guests.

- Full management of network elements with minimum restrictions
- Accurate operation even in the most demanding Hospitality environments
- Simple and standardized web configuration interface
- High performance without the need to purchase numerous additional devices



▲ 769601



▲ 769214



▲ 769414



HOSPITALITY FIBREDATA SERIES (GPON)

Ref.	Description	
VIDEO OVERLAY HEADENDS		
OPTICAL TRANSMITTERS		
234305	T.OX Optical Transmitter SMATV 1550nm "SC/APC" Po 5dBm w/o Return Path	1
234811	T.OX Optical Transmitter CATV 1550nm "SC/APC" Po 10dBm w/o Return Path RF Automatic Adjustment and Temperature Stability	1
769801	Optical Transmitter SMATV 1550nm "SC/APC" Po 5dBm w/o Return Path 19" Rack Mount, 1RU	1
769812	Optical Transmitter CATV 1550nm "SC/APC" Po 6dBm w/o Return Path External modulation and RF Automatic Adjustment (up to 30Km). DOCSIS 3.1 compatible 19" Rack Mount, 1RU	1
AMPLIFIERS / MULTIPLEXERS		
234220	T.OX Optical Amplifier 1i/1o: 1550nm "SC/APC" 20dBm (EDFA Technology)	1
234221	T.OX Optical Amplifier / Multiplexer "SC/APC" 19dBm (EDFA Tecnology) 2i: 1310/1490nm - 1550nm, 1o: 1310/1490/1550nm	1
234228	T.OX Optical Amplifier / Multiplexer "SC/APC" 20dBm (YEDFA Technology) 9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm	1
769610	Optical Amplifier / Multiplexer "SC/APC" 20dBm (YEDFA Technology) 9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm + Double Power Supply Unit -48Vdc. 19" Rack Mount, 1RU (for OLT)	1
769611	Optical Amplifier / Multiplexer "SC/APC" 20dBm (YEDFA Technology) 33i: 32x1310/1490nm - 1x1550nm, 32o: 32x1310/1490/1550nm + Double Power Supply Unit. 19" Rack Mount, 2RU	1
769612	Optical Amplifier / Multiplexer "SC/APC" 17dBm (YEDFA Technology) 9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm + Double Power Supply Unit -48Vdc. 19" Rack Mount, 1RU (for OLT)	1
★ 769615	Optical Amplifier / Multiplexer "SC/APC" 20dBm (YEDFA Technology) 9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm + Double Power Supply Unit. 19" Rack Mount, 1RU	1
★ 769616	Optical Amplifier / Multiplexer "SC/APC" 17dBm (YEDFA Technology) 9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm + Double Power Supply Unit. 19" Rack Mount, 1RU	1
769620	Optical Amplifier 1i/1o: 1550nm "SC/APC" 20dBm (EDFA Technology) + Double Power Supply Unit. 19" Rack Mount, 1RU	1
769622	Optical Amplifier 1i/8o: 1550nm "SC/APC" 10dBm (EDFA Technology) + Double Power Supply Unit. 19" Rack Mount, 1RU	1
769623	Optical Amplifier 1i/8o: 1550nm "SC/APC" 20dBm (YEDFA Technology) + Double Power Supply Unit. 19" Rack Mount, 1RU	1
769630	Optical Amplifier / Multiplexer "SC/APC" 20dBm (EDFA Technology) 2i:1x1310/1490nm - 1x1550nm, 1o:1310/1490/1550nm + Double Power Supply Unit. 19" Rack Mount, 1RU	1
769631	Optical Amplifier / Multiplexer "SC/APC" 14dBm (EDFA Technology) 5i:4x1310/1490nm - 1x1550nm, 4o:1310/1490/1550nm + Double Power Supply Unit. 19" Rack Mount, 1RU	1
769632	Optical Amplifier / Multiplexer "SC/APC" 10dBm (EDFA Technology) 9i:8x1310/1490nm - 1x1550nm, 8o:1310/1490/1550nm + Double Power Supply Unit. 19" Rack Mount, 1RU	1
POWER SUPPLY UNIT		
5629	T.OX Switch-mode Power Supply Unit 120W 24V-5A	1
OPTICAL SPLITTERS		
2337	T.OX Optical Splitter 1260...1650nm "SC/APC" 2W 4dB	1
2339	T.OX Optical Splitter 1260...1650nm "SC/APC" 4W 7dB	1
234401	T.OX Optical Splitter 1260...1650nm "SC/APC" 8W 10dB	1
234501	T.OX Optical Splitter 1260...1650nm "SC/APC" 16W 14dB	1
234601	T.OX Optical Splitter 1260...1650nm "SC/APC" 32W 17dB	1



▲ 234305



▲ 769801



▲ 234228



▲ 769615



▲ 769616

T.OX: FIBRE OPTIC AMPLIFIERS



Why use them?

- Amplifiers optimised for **SKY Q** Applications
- Range of 1, 8 and 32 outputs
- Capability to feed thousands of points
- T.OX 19" Rack Mount which optimise space and it allows an easy and quick install
- Highest performance with 1550nm Technology
- High output power up to 20dBm
- Peace of mind in your Fibre IRS installations

> 1-Output **EDFA** Optical Amplifier

Ref.234220

-10 to + 10dBm range

Based on EDFA
(Erbium Doped Fibre)

> 1-Output **YEDFA** Optical Amplifier

Ref.234221

-10 to + 10dBm range

Based on YEDFA
(Erbium and Ytterbium Doped Fibre)

Equipped with WDM
for the multiplexing of RF Overlay
with GPON signals



▲ 2337



HOSPITALITY FIBREDATA SERIES (GPON)

Ref.	Description	
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SUBSCRIBER EQUIPMENT

ONT/ONU

769507	Basic ONU Module: 1x Gb Ethernet	1
769509	Hospitality PoE(30W) ONT Module: 4x Gb Ethernet + 2x FXS, RF Overlay	1
769514	Hospitality WiFi AC ONT Module: 4x Gb Ethernet + 2x FXS, WLAN b/g/n/ac, RF Overlay	1
769520	SPF ONU Module: GPON	1

Ref.	Description	
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OPTICAL MICRO-RECEIVER

231111	Domestic Optical Receiver 1550nm "SC/APC" with Amplifier 47...1006MHz, OLC Technology	1
237330	Optical Receiver / Demultiplexer "SC/APC" [-5...+2dBm] 1i: 1310/1490/1550nm(GPON/TV), 2o: 1310/1490nm(GPON) - RF(1TV: Terr./Sat) Vo 58/49dBµV	1



▲ 769520

ONU SFP Adapter

This device is intended to be connected to the network device to extend the GPON deployment in existing access network for the subscribers.



▲ 231111



▲ 237330

Technical Characteristics: ONT+ONU



References	769514	769509	769507
Models	HOSPITALITY WIFI AC	HOSPITALITY PoE	BASIC
RF Overlay	✓	✓	✗
WiFi (802.11 b/g/n) [2x2] 2.4	✓	✗	✗
WiFi (802.11 b/g/n/ac) [4x4] 2.4/5	✓	✗	✗
USB	1	2	✗
FXS Ports	2	2	✗
ETH 10/100/1000BASE-T Ports	4	4 (PoE - 30W)*	1
NAT/NAPT	✓	✓	✗
Firewall	✓	✓	✗
VPN pass-through	✓	✓	✗
PPPoE Terminal	✓	✓	✗
OMCI	✓	✓	✗
TR-069	✓	✓	✗
CLI	✓	✓	✗
WebGUI	✓	✓	✗

* Ref. 769509: The PoE ports of this ONT can be configured in two ways, 1 port of up to 30W of power, or 4 ports of up to 6.49W of power each

For more information about optical fibre cabling and distribution elements, see the DataCom section.



HOSPITALITY NETWORKING

Ref.	Description	
NETWORK ELECTRONICS		
ROUTERS		
769110	Network Manager: Router and Firewall, 4x Gb Ethernet	1
769111	Network Manager: Router and Firewall, 6x Gb Ethernet + 2x SFP	1
769120	Router 12x Gb Ethernet + Configuration of services, 19" Rack Mount, 1U	1
769122	Router 16x Gb Ethernet + 2x SFP+, 19" Rack Mount, 1U	1
SWITCHES		
Managed		
768150	Industrial Ethernet Switch L2+: 8x Gb Ethernet (PoE+, 240W) + 2x SFP (1 Gbps), -40...+75°C (without PSU)	1
769140	Ethernet Switch L2+: 8x Gb Ethernet (PoE+, 130W) + 2x SFP (1 Gbps)	1
769141	Ethernet Switch L2+: 24x Gb Ethernet (PoE+, 370W) + 4x Gb Ethernet/SFP Combo	1
769144	Ethernet Switch L2+: 24x Gb Ethernet + 4x SFP (1 Gbps)	1
769145	Ethernet Switch L2+: 48x Gb Ethernet + 6x SFP+ (10 Gbps)	1
★ 769146	Ethernet Switch L2+: 48x Gb Ethernet (PoE+, 370W) + 6x SFP (10 Gbps)	1
769147	Ethernet Switch L2+: 8x Gb Ethernet + 2x SFP (1 Gbps)	1
769148	Ethernet Switch L3: 48x Gb Ethernet + 6x SFP+ (10Gbps)	1
★ 769149	Ethernet Switch L3: 8x Gb Ethernet + 24x SFP (1 Gbps) + 6x SFP+ (10 Gbps)	1
★ 769152	Ethernet Switch L2+: 8x Gb Ethernet/SFP Combo + 16x SFP (1 Gbps) + 4x SFP+ (10 Gbps)	1
Unmanaged		
768110	Ethernet Switch L2, Unmanaged: 5x 10/100/1000 Mbps	1
768111	Ethernet Switch L2, Unmanaged: 8x 10/100/1000 Mbps	1
768112	Ethernet Switch L2, Unmanaged: 8x Gb Ethernet (Long range PoE+, 120W) + 2x Gb Ethernet	1
★ 768115	Ethernet Switch L2, Unmanaged: 24x Gb Ethernet + 2x SFP (1 Gbps)	1
★ 768116	Ethernet Switch L2, Unmanaged: 24x Gb Ethernet (PoE+, 370W)+ 2x SFP (1 Gbps)	1
768121	Industrial Ethernet Switch L2, Unmanaged: 8x 10/100/1000 Mbps, -40...+75°C (without PSU)	1
SFP TRANSCEIVERS		
769150	SFP Transceiver 1GbE, 2 MMF (LC/PC), 850nm, 500m	1
769210	SFP Transceiver 1GbE 2 SMF "LC/UPC", 1310nm	1
769212	Kit: 2 SFP Transceiver 1GbE, SMF "LC/UPC", 1310+1490nm	1
★ 769214	SFP+ Transceiver 10GbE, 2 SMF "LC/UPC", 1310nm, 10km	1
769412	SFP+ Transceiver 10GbE for OLT512, 2 SMF "LC/UPC"	1
MEDIA CONVERTERS		
769215	RJ45-SFP Media Converter SMF/MMF, SFPs 769210/2 compatible	1
769216	RJ45-F.O. Media Converter SMF, TX: 1310nm, RX: 1550nm	1
769217	RJ45-F.O. Media Converter SMF, TX: 1550nm, RX: 1310nm	1



▲ 769111



▲ 769144



▲ 769146



▲ 769148



▲ 769149



▲ 769152



▲ 769215

Compatibility between SFP modules and different Ethernet and GPON equipment

Compatible products	769520	769210	769212	769214	769410	769411	769412	769413	769414	769415	769150
Ethernet Switches: 769140, 769141, 769144, 769145, 769146, 769147, 769148, 769149, 769152	✓	✓	✓	✓*	✗	✗	✓*	✗	✗	✗	✓
Industrial Switch: 768150	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✓
Router: 769111	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗
GPON OLT: 769403, 769420, 769421, 769422	✗	✗	✓	✓**	✓	✓	✓	✓	✓**	✓**	✓**
Media Converter: 769215	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✓
WaveData: 769002	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✓
CoaxData Modem: 769202	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓

* Compatible with Ethernet switches with SFP+ ports: 769145, 769146, 769148, 769149 or 769152.

** Compatible with OLT512EVO: 769403.



HOSPITALITY NETWORKING

Ref.	Description	
WIFI ACCESS POINTS		
WAVEDATA SERIES		
WaveData Access Points		
769001	Indoor Wireless Access Point WaveData: 1x Ethernet WAN (PoE), 1x Ethernet LAN, 1x USB 3.0, WLAN b/g/n/ac (option Low Power WiFi)	1
769002	Indoor Wireless Access Point WaveData: 1x F.O. SFP, 1x Ethernet LAN, 1x USB 3.0, WLAN b/g/n/ac (option Low Power WiFi)	1
769011	Outdoor Wireless Access Point WaveData: 1x Ethernet WAN (PoE), 1x Ethernet LAN, 1x USB 3.0, WLAN b/g/n/ac	1
Accessories		
640301	Wall Mount for CoaxData/CoaxBox/WaveBox	1

Ref.	Description	
MANAGEMENT AND MONITORING		
768801	DataBox device: Managing and monitoring platform for WaveData, CoaxData and Networking devices	1
769030	WaveBox device: Managing and monitoring the WaveData network	1
769112	Network Manager: Hotspot, 4x Gb Ethernet	1

DATA OVER CABLE SYSTEM

Ref.	Description	
COAXDATA SERIES (HOMEPLUG AV)		
GIGABIT 1GBPS		
769201	Transmitter/Receiver 1Gbps-HDTV Data over Coaxial and PLC, 2 Ethernet Connectors & 2 "F" Connectors	1
769202	Transmitter/Receiver 1Gbps-HDTV Data over Coaxial and PLC, 1 Ethernet Connector, 1 SFP (Optical Fiber) Connector & 2 "F" Connectors	1
769203	Transmitter/Receiver 1Gbps-HDTV Data over Coaxial, 1 Ethernet Connector & 2 "F" Connectors	1
769301	Transmitter/Receiver Router 1Gbps-HDTV Data over Coaxial, PLC and WiFi (Low Power WiFi option), 3 Ethernet Connectors & 2 "F" Connectors	1
MANAGEMENT		
769330	CoaxBox device: Managing and monitoring the CoaxData network	1
ACCESSORIES		
640301	Wall Mount for CoaxData/CoaxBox/WaveBox	1
769210	SFP Transceiver 1GbE 2 SMF "LC/UPC", 1310nm	1
769212	Kit: 2 SFP Transceiver 1GbE, SMF "LC/UPC", 1310+1490nm	1
769220	Diplexer Filter 2i/1o "F": LPF[2...68MHz] - HPF[87...2150MHz]	1/10



▲ 769201



▲ 769301

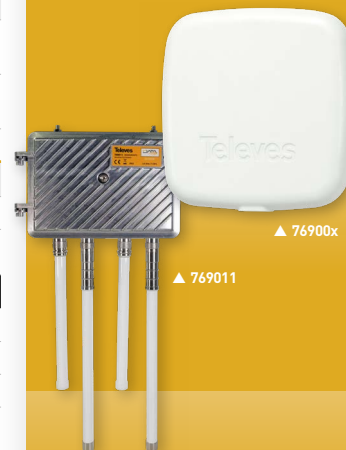


▲ 769210



▲ 769212

WAVEDATA SERIES



WIRELESS ACCESS POINT

WaveData AP provides a high-performance wireless mobility solution for establishments with medium / high density.

The ref. 769002 includes a port for SFP modules, which allows to extend the switching functionality over fibre optic cables.

DATABOX



▲ 768801

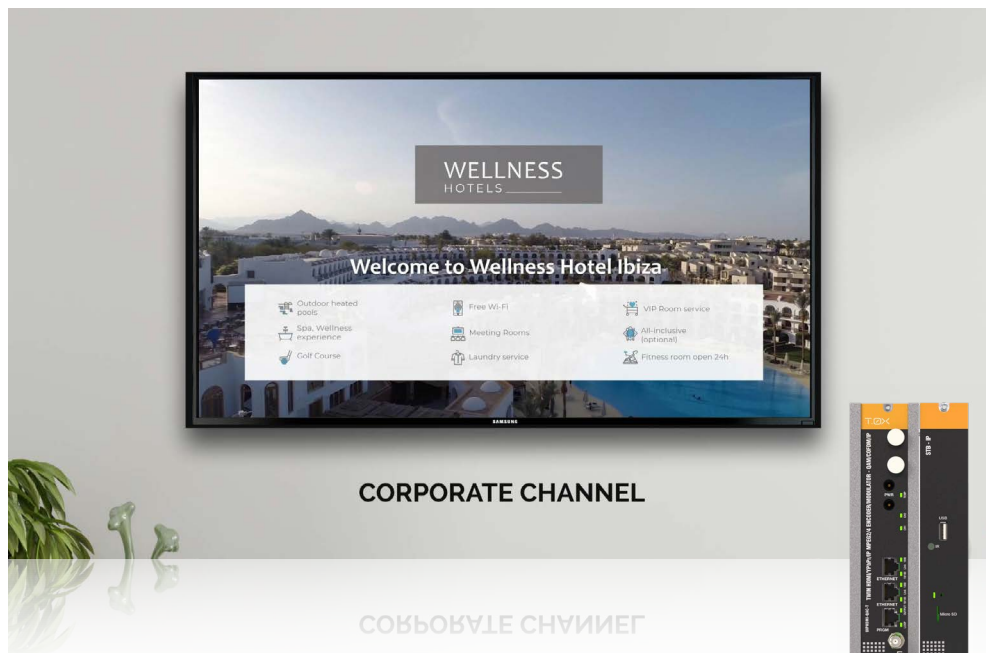
The DataBox device is designed for the management and monitoring of network project devices, as headends, switches, routers, ONTs, in addition to the WaveData series and CoaxData series, among others.

- Centralized monitoring on a single platform
- It allows rapid detection of failures and errors in the network
- SNMP protocol integrated
- Logs and statistics consultation
- Alert management



HOSPITALITY INTERACTIVE SERVICES

Ref.	Description	
IPTV HEADENDS		
T.OX SERIES		
Streamers		
565701	T.OX Streamer DVB-T/T2-IP CI (Multicast/Unicast, SPTS) Multiplexer: 4 Channels (DVB-T/T2) : 32 IP Streams	1
565801	T.OX Streamer DVBS/S2-IP CI (Multicast/Unicast, SPTS) Multiplexer: 3 Transponders(2Sat) or 3 Transponders(1Sat+LoopThru) : 32 IP Streams	1
Encoders		
563852	T.OX Encoder/Modulator IP Twin (MPEG2/4), 2 Modes: 2i: HDMI / Component(YPbPr) / CVBS - 1Mux: IP/COFDM/QAM 2i: HDMI / Component(YPbPr) / CVBS / IP - 1Mux: COFDM/QAM	1
831816	Kit T.OX Corporate Channel: Nemesis DS Player (Ref. 831815) + T.OX HDMI-IP Encoder (Ref. 563852) + Power Supply Unit (Ref. 582802)	1
Auxiliary Equipment		
216802	Kit: OTG USB - microUSB B Cable & WiFi Adapter. Utilities: Streamers T.OX WiFi Control	1
5301	19" Rack Frame 484mm 5RU (1 PSU + 7 T.OX Modules or 10 T12/T05 Modules)	1
5629	T.OX Switch-mode Power Supply Unit 120W 24V-5A	1



▲ 831816

STREAMERS T.OX IP



▲ 565801 ▲ 565701

Streamers generating an IP encapsulated output from the multiplexing of the services available in:

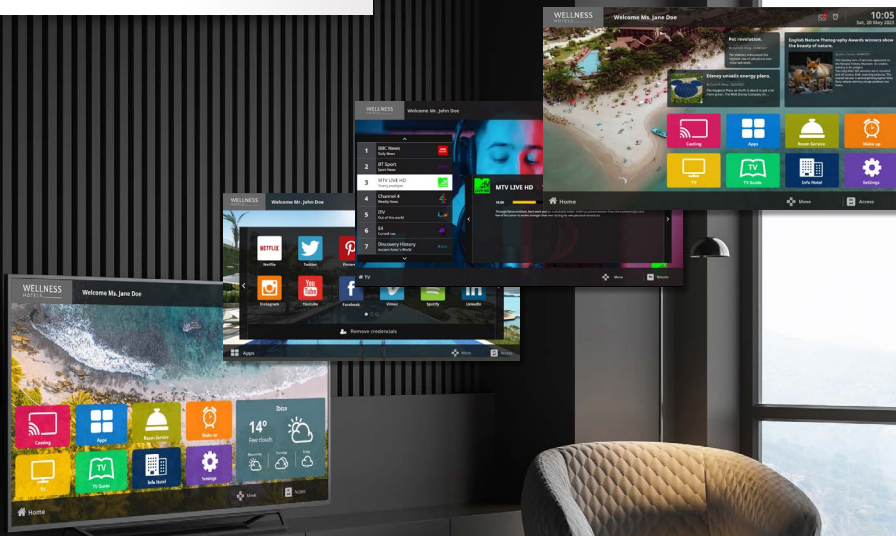
- Up to 3 different TV SAT transponders: Ref. 565801.
- 4 different DVB-T or DVB-T2 muxes: Ref. 565701.



▲ 563852



ARANTIA.TV



IPTV AND INTERACTIVE TV

Arantia TV includes all the services needed to respond to its customers' requirements within a simple IPTV platform in all kinds of projects, including hotels, hospitals, operators, companies and residential buildings. Indeed, it provides additional **new tools in order to enhance business operations.**

- **Multi-screen Middleware:**
 - STB Nemesis V2 Middleware, LG, Samsung and Philips TVs* .
 - Apps for iOS and Android devices*.
- **Third party systems integration:**
 - Property Management Systems,
 - NO/NC Alarm Systems.
- **Multiple Interactive Services:**
 - Television, Video on Demand, News, Messages, Check Expenses, Information Services, Booking & Shopping, Surveys...
- **Integration with Arantia DS (Digital Signage) and ArantiaCast (content sharing on the TV from mobile devices via Chromecast).**
- **Powerful integrated system management tool:** Allows the management of all the existing functionalities of the system from a centralized source.
- **Customizable user interface,** according to the requirements of every project and even every room within the same project.

* Check compatible TV models.

Ref.	Description	
ITV HEADEND (INTERACTIVE TELEVISION)		
MIDDLEWARE		
83031801	Arantia TV Middleware up to 50 Users	1
83032003	Arantia TV Middleware up to 100 Users	1
83032103	Arantia TV Middleware up to 499 Users	1
83032203	Arantia TV Middleware up to 750 Users	1
83032303	Arantia TV Middleware up to 1000 Users	1
83032403	Arantia TV Middleware up to 2200 Users	1
83032503	Arantia TV Middleware Lite up to 1000 Users	1
LICENCES		
830319	Arantia TV Set-Top Box License	1
830510	Arantia TV Compatible Television License (LG, Samsung, Philips)	1
VOD SERVERS		
830311	VOD Server 20 Streams 1TB SAS	1
83031203	VOD Server 95 Streams 1TB (2.4TB) SAS	1
NPVR SERVERS		
830401	nPVR Server 20 Streams 1TB SAS	1
830403	nPVR Server 95 Streams 1TB (2.4TB) SAS	1



▲ 83031801



▲ 83032003



License



▲ 830319



▲ 830311



HOSPITALITY INTERACTIVE SERVICES

Ref.	Description	
ITV PERSONALIZATION		
PERSONALIZATION ITEMS AND ADDITIONAL OPTIONS		
830110	Alarm Monitor Device	1
830501	Property Management System Integration License (Middleware or ArantiaCast server needed)	1
830502	Guest User Interface (GUI) personalization Arantia TV	1
830506	TV NO/NC Alarm System Integration	1
830508	Property Management System Integration HW Gateway	1
830509	Property Management System Integration Gateway - License for Room	1
830511	Property Management System Adapter Interface License	1
★ 830520	Property Management System Integration License for VoIP service (PMS Integration Gateway 830508 and VoIP IP PBX 77014x needed)	1
980103	Arantia TV User Interface Customization (1 hour)	1
ITV ROOM EQUIPMENT		
SET-TOP BOX		
830108	Nemesis V2 Set-Top Box	1
830130	Nemesis V2 Kit: Set-Top Box + IR/RF Remote Control + Power Supply	1
ACCESSORIES		
830207	LG/Samsung Remote Control	1
830216	IR Universal (TV) and RF (STB Nemesis V2) Remote Control	1
830218	Power Supply Unit for Nemesis V2 Set-Top Box (All plugs)	1
830219	Nemesis V2 Set-Top Box TVI Extension - Samsung	1
830220	Nemesis V2 Set-Top Box TVI Extension - LG	1
830221	Wall Mount for Nemesis V2 Set-Top Box	1
ITV ACCESSORIES		
RACKS AND ACCESSORIES		
831301	19" Rack 27U (Mounted & Adjusted)	1
831303	19" Rack 42U (Mounted & Adjusted)	1
831304	19" Rack 22U (Mounted & Adjusted)	1
ROUTER		
831404	VPN Router	1
TRANSCIVERS		
831505	Transceiver 1000T RJ-45	1

STB NEMESIS V2



Powerful Set-Top-Box designed to deploy interactive services specifically designed and developed to serve the hospitality environment.

Based on the AOSP (Android Open Source Project) with a complete management tool and an intuitive user application, it is the perfect choice to offer information and entertainment services.

- MPEG2, MPEG4-AVC / H264 decoding capabilities.
- Remote management and monitoring.
- Accessories: Power supply 10W (5V/2A) and remote control (Bluetooth and IR).

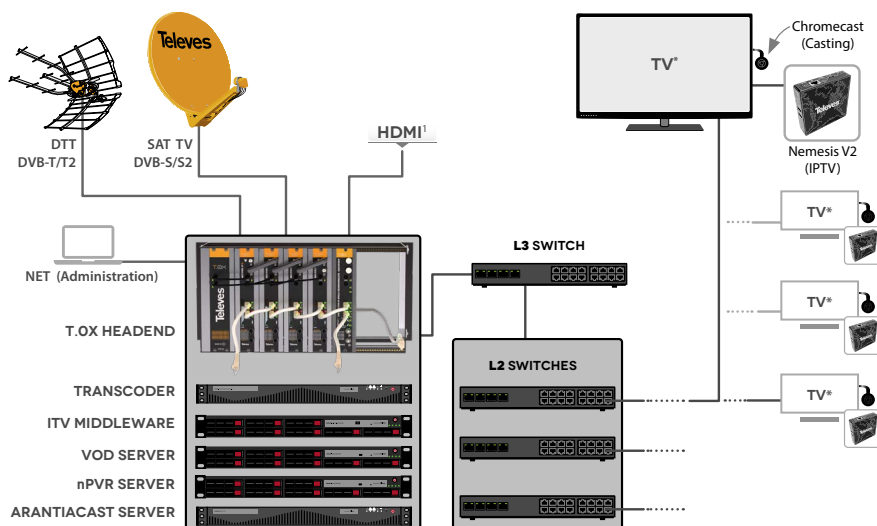


▲ 830130



▼ Rack 27U (Mounted and adjusted)

Arantia TV: Main System Components



This diagram includes the main System Architecture components.

Input systems such as the T.OX, MDW Server, Multiscreen Transcoder, the IP distribution network and the end user devices like the Nemesis V2 STB's, TV's and players for IPTV reception, digital signage with Arantia DS or advanced interactive services with Arantia TV.

T.OX streamers support DRM Pro:Idiom.

1. The HDMI input allows the inclusion in the system of audio and video streams from HDMI sources such as encoders, PCs, and others.

Compatible TVs:

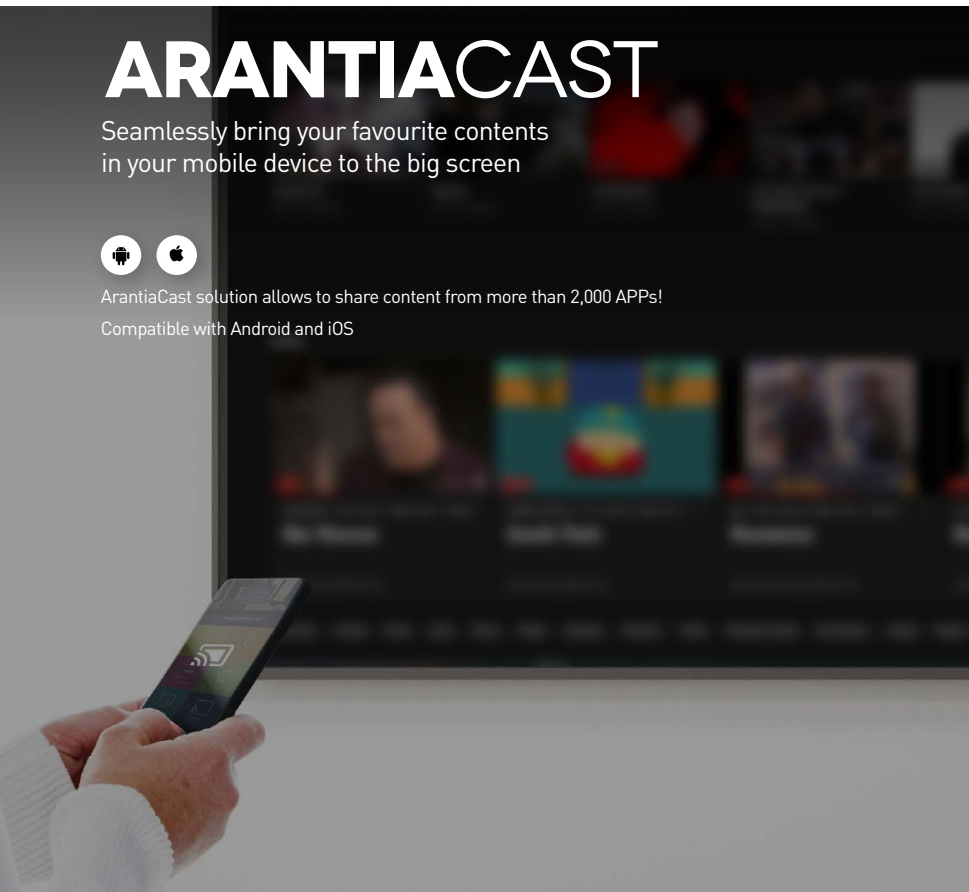


ARANTIACAST

Seamlessly bring your favourite contents in your mobile device to the big screen



ArantiaCast solution allows to share content from more than 2,000 APPs!
Compatible with Android and iOS



STREAMING EXPERIENCE

All content from mobile devices on the Hotel's TV set.

ArantiaCast system is specifically designed to operate in Hospitality type environments where several users coexist, and where ensure the guests privacy is a key responsibility to the hotel. Without any login or password, and with automatic disconnection when the guest checks out through the hotel's PMS.

- The system allows the advanced remote monitoring of the installed devices.
- The Chromecast installation on the television sets is carried out in an unobtrusive and safe way.
- Streaming will only be allowed on the television set of the guest's own room.
- It includes the option to customise the contents of the Chromecast welcome screen, allowing the hotel to include its own brand in the system.
- The system includes a section of usage statistics in the configuration tool.
- Disconnection from the system takes place on check.
- Content streaming on the hotel's television set, just like home.
- Compatible with any television set equipped with an HDMI connector.
- Over 2,000 applications available for Casting.
- Supports running certain entertainment applications directly on the Chromecast with Google TV.
- Multiple mobile devices can be connected to the same room's Chromecast.

Ref.	Description	
ARANTIACAST		
ARANTIACAST SERVER		
831410	ArantiaCast Server	1
831416	ArantiaCast Server Lite (Max. 80 viewing points)	1
CHROMECAST DEVICE		
831412	License for Chromecast Device (2 years)	1
831414	ArantiaCast Server SW Warranty Extension (annual per Chromecast Device)	1
★ 831418	ArantiaCast Kit: Pre-configured Chromecast (Google TV) + Box + Security Cable	1



▲ 831410



▲ 831418

Stream your favourite content from your personal device straight to the TV in three easy steps

1	CONNECT to the Wi-Fi: Hotel-WIFI	
2	SCAN this QR code: or VISIT local.arantia.com and enter the code: 12345ABC	
3	TAP the casting icon in your cast-enabled app and enjoy!	

Room 212

HOSPITALITY DIGITAL SIGNAGE

Ref.	Description	
DIGITAL SIGNAGE CLOUD		
DS PLAYERS		
831801	DS Totem with Vertical Display	1
831811	DS SYNC Annual License	1
831812	Nemesis DS Player	1
831815	Nemesis DS Player - T.OX 19" Rack Mounting	1
831830	Nemesis DS Player Wi-Fi (EU PSU included)	1
ACCESSORIES		
830208	Power Supply Unit for STB (UK plug)	1
830213	STB TVI Extension - Samsung	1
830215	STB TVI Extension - LG	1
Ref.	Description	
LOCAL DIGITAL SIGNAGE		
DS SERVER		
831805	Arantia DS Server up to 150 Users	1
DS PLAYERS		
831801	DS Totem with Vertical Display	1
831812	Nemesis DS Player	1
831815	Nemesis DS Player - T.OX 19" Rack Mounting	1
831830	Nemesis DS Player Wi-Fi (EU PSU included)	1
ACCESSORIES		
830208	Power Supply Unit for STB (UK plug)	1
830213	STB TVI Extension - Samsung	1
830215	STB TVI Extension - LG	1

Televes



▲ 831801



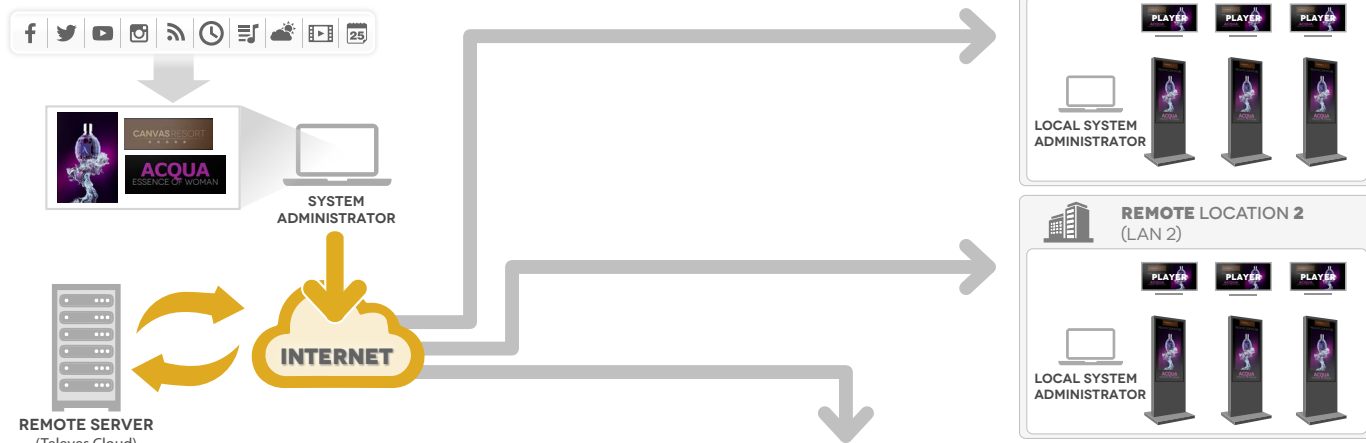
▲ 831830



▲ 831805

ARANTIA.DS: Cloud based & in-house Server based operation modes

Arantia DS offers two operation modes through a Cloud based or an in-house Server based architecture:



CLOUD BASED ARANTIA DS:

The core DS management application is hosted inside Televes Cloud infrastructure and the distributed DS Players access to it from any place with Internet access.

This architecture is perfect for distributed DS systems with some DS Players in different locations.

IN-HOUSE SERVER BASED ARANTIA DS:

The core DS management application and the DS Players are located in the same local area network.

This architecture is perfect for DS systems where the number of DS Players located in the same local network is high.



HOSPITALITY EXPAND TV

Ref.	Description	
TRANSCODER		
832201	Transcoder/Streamer Live	1
832204	Transcoder/Streamer Live Plus	1

TELEPHONY (VOIP)

Ref.	Description	
SUBSCRIBER EQUIPMENT		
ONT/ONU		
769509	Hospitality PoE(30W) ONT Module: 4x Gb Ethernet + 2x FXS, RF Overlay	1
769514	Hospitality WiFi AC ONT Module: 4x Gb Ethernet + 2x FXS, WLAN b/g/n/ac, RF Overlay	1
769520	SPF ONU Module: GPON	1

Ref.	Description	
IP PBX		
770146	VOIP PBX Phone System (up to 50 simultaneous calls)	1
770147	VOIP PBX Phone System (up to 200 simultaneous calls)	1

Ref.	Description	
TERMINALS		
IP		
770101	Wi-Fi Terminal with dual-band Wi-Fi support 802.11a/b/g/n, 2 SIP accounts, 2 lines, 2.4" colour LCD screen	1
770110	IP Terminal with 1 SIP account, 3 XML keys, Backlit LCD screen, Black	1
770120	PoE IP Terminal with 2 SIP accounts, 3 XML keys, Backlit LCD screen, Black	1
770130	PoE Operator IP Terminal with 6 SIP accounts, 12 line keys, 5 XML keys, 4.3" colour LCD screen, Black	1
770150	Extension Module for Operator IP Terminal with 20 programmable keys, 2 navigation keys, LCD screen, Black	1

ANALOGUES		
770301	Analogue Terminal with 4 direct keys for one touch connection, Black	● 1
770302	Analogue Terminal with 4 direct keys for one touch connection, White	○ 1
★ 770305	Compact Analogue Terminal, Black	● 1
★ 770306	Compact Analogue Terminal, White	○ 1

EXPAND TV TRANSCODERS/STREAMERS



▲ 832201



▲ 832204

Transcoder/streamer units are intended for the in the streaming of television channels to any device (Smartphones, Tablets, STBs, PCs, Smart TVs...) through different kinds of networks. Thanks to this powerful functionality, users will be able to enjoy broadcasted content throughout the whole establishment.



▲ 770146



▲ 770147



▲ 770120



▲ 770302



▲ 770305

DO IT YOURSELF

Telecommunications products designed for the non-specialized user who needs to carry out a simple reform or installation at home. Characterized by being simple to use or install, and by having an explanatory and visually attractive packaging, ready to be displayed on the point of sale shelf.





DO IT YOURSELF

TERRESTRIAL ANTENNAS

Ref.	Description		
INTELLIGENT: OUTDOOR SERIES			
DAT SERIES			
149721	DAT BOSS LR Terrestrial Antenna UHF (Ch21-48) G 19dBi BOSS OFF, G 47dBi BOSS ON (Single packing)	TFFORCE LTE700	● 1
149921	DAT BOSS Terrestrial Antenna UHF (Ch21-48) G 17dBi BOSS OFF, G 42dBi BOSS ON (Single packing)	TFFORCE LTE700	● 1/5
DINOVA BOSS			
144022	DINOVA BOSS Terrestrial Antenna UHF (Ch21-48) G 7dBi BOSS OFF, G 34dBi BOSS ON (Kit with accessories)	TFFORCE LTE700	○ 1
144224	DINOVA BOSS MIX Terrestrial Antenna BIII/UHF (Ch5-12/21-48) G 1/6dBi BOSS OFF, G 27/32dBi BOSS ON (Kit with accessories)	TFFORCE LTE700	○ 1
OMNINOVA BOSS			
144422	OMNINOVA BOSS Terrestrial Antenna BI/FM/BIII/UHF (Ch3-12/21-48) G 17/16/25/25dBi BOSS ON (Kit with accessories)	TFFORCE LTE700	○ 1
CAMPNOVA BOSS			
144521	CAMPNOVA BOSS Terrestrial Antenna FM/BIII/UHF (Ch5-12/21-48) G -2/20/30dBi BOSS ON (Kit with accessories)	TFFORCE LTE700	○ 1
Ref.	Description		
INTELLIGENT: INDOOR SERIES			
BEXIA			
130501	BEXIA Indoor Terrestrial Antenna VHF/UHF (Ch5-12/21-48) G 15/18dBi (USB-microUSB cable included, for 5V powering)	TFFORCE LTE700	● 1/6
MIRA BOSS			
130121	MIRA BOSS Indoor Terrestrial Antenna UHF (Ch21-48) G 18dBi	TFFORCE LTE700	● 1/240
INNOVA BOSS			
130220	INNOVA BOSS Indoor Terrestrial Antenna UHF (Ch21-48) G 20dBi (USB-microUSB cable included, for 5V powering)	TFFORCE LTE700	● 1

SET TOP BOXES AND DOMESTIC ACCESSORIES

Ref.	Description	
MODULATORS		
585301	Modulator DVB-T 1i: HDMI - 1 Mux(174...230/470...862MHz): CODFM (MPEG-4). With 2xUSB, HDMI pass-through and Remote Management	1
Ref.	Description	
A/V AND IR SENDERS		
WIRELESS IR SENDERS		
721903	Digidom Universal Transmitter, Remote Control Extender, 8 Channels	1/50
723703	Digidom Universal Transmitter + Receiver, Remote Control Extender, 8 Channels	1/30



▲ DiNova BOSS



▲ CampNova BOSS



▲ BEXIA



▲ 130121



▲ 723703



DO IT YOURSELF FILTERING AND AMPLIFICATION

Ref.	Description		
DOMESTIC AMPLIFIERS			
IEC-CONNECTOR SERIES			
545720	Domestic Amplifier 1i/(2o+TV) "IEC": 47...694MHz G 20dB Vo 110dB μ V + Output to a TV Outlet G 12dB + Preamp.Pow. 12V-100mA (Blister T1)	LTE700	1/8
552120	Domestic Amplifier 1i/2o "IEC": 47...694MHz G 22dB Vo 104dB μ V (Blister T1)	LTE700	1/8
552740	Domestic Amplifier 1i/1o "IEC": 47...790MHz G 25dB Vo 112dB μ V (Blister T1)	LTE790	1/8
552840	Domestic Amplifier 1i/(2o+TV) "IEC": 47...790MHz G 20dB Vo 106dB μ V + Output to a TV Outlet G 12dB (Blister T1)	LTE790	1/8
552940	Domestic Amplifier 1i/(4o+TV) "IEC": 47...790MHz G 16dB Vo 102dB μ V + Output to a TV Outlet G 11dB (Blister T1)	LTE790	1/8
F-CONNECTOR SERIES			
552220	Domestic Amplifier 1i/(2o+TV) "F": 47...694MHz G 20dB Vo 106dB μ V + Output to a TV Outlet G 12dB (Blister T1)	LTE700	1/8
552320	Domestic Amplifier 1i/(4o+TV) "F": 47...694MHz G 16dB Vo 102dB μ V + Output to a TV Outlet G 12dB (Blister T1)	LTE700	1/8
553120	Domestic Amplifier 1i/6o "F": 47...694MHz G 14dB Vo 95dB μ V (Blister T1)	LTE700	1/8
ATTENUATORS			
PLUG-IN FORMAT: IEC CONNECTOR			
4315	Adjustable Attenuator "IEC" \emptyset 9.5mm 1 to 25dB VHF/UHF DC Pass (Bag B1)		1/10

DISTRIBUTION

Ref.	Description		
SPLITTERS			
EASYF SERIES			
434103	Mini-Splitter 5...2400MHz "EasyF" 2W 4.5/4.3dB DC Pass All With Outdoor Mounting Case (Blister T1)		1/10
434202	Splitter 5...2400MHz "EasyF" 4W 9/7.5dB DC Pass 0-I With Outdoor Mounting Case (Blister T1)		1/8

Televes



▲ 553120



▲ 4315



▲ 434103



▲ 434202



DO IT YOURSELF CABLES AND CONNECTORS

Ref.	Description		
COAXIAL			
TRIPLE SHIELDING EXTENSION CORDS (TSH)			
3851	Coaxial Cable Lead "F" Compression 1.5m White (Bag B0)	○	1/30
385101	Coaxial Cable Lead "F" Compression 3m White (Bag B0)	○	1/20
385102	Coaxial Cable Lead "F" Compression 5m White (Bag B0)	○	1/15
3852	Coaxial Cable Lead "IEC" Male-Female Compression 1.5m White (Bag B0)	○	1/30
385201	Coaxial Cable Lead "IEC" Male-Female Compression 3m White (Bag B0)	○	1/20
385202	Coaxial Cable Lead "IEC" Male-Female Compression 5m White (Bag B0)	○	1/15
3853	Coaxial Cable Lead "F" Compression - "Quick F" "PRO EasyF" 1.5m White (Bag B0)	○	1/30
385301	Coaxial Cable Lead "F" Compression - "Quick F" "PRO EasyF" 3m White (Bag B0)	○	1/20
385302	Coaxial Cable Lead "F" Compression - "Quick F" "PRO EasyF" 5m White (Bag B0)	○	1/15
3854	Coaxial Cable Lead "F" - "IEC" Female Compression 1.5m White (Bag B0)	○	1/30
385401	Coaxial Cable Lead "F" - "IEC" Female Compression 3m White (Bag B0)	○	1/20
385402	Coaxial Cable Lead "F" - "IEC" Female Compression 5m White (Bag B0)	○	1/15
385501	Coaxial Cable Lead "F" Compression - "IEC" Female "PRO EasyF" 3m White (Bag B0)	○	1/20
3856	Coaxial Cable Lead "F" - "IEC" Male Compression 1.5m White (Bag B0)	○	1/30
385601	Coaxial Cable Lead "F" - "IEC" Male Compression 3m White (Bag B0)	○	1/20
385602	Coaxial Cable Lead "F" - "IEC" Male Compression 5m White (Bag B0)	○	1/15
385701	Coaxial Cable Lead "F" Compression - "IEC" Male "PRO EasyF" 3m White (Bag B0)	○	1/20
3858	Coaxial Cable Lead "IEC" Male Compression - "IEC" Female "PRO EasyF" 1.5m White (Bag B0)	○	1/30
385801	Coaxial Cable Lead "IEC" Male Compression - "IEC" Female "PRO EasyF" 3m White (Bag B0)	○	1/20
385802	Coaxial Cable Lead "IEC" Male Compression - "IEC" Female "PRO EasyF" 5m White (Bag B0)	○	1/15
DOUBLE SHIELDING EXTENSION CORDS			
431001	Coaxial Cable Lead "IEC" Ø 9.5mm Elbowed Shielded Male-Female 1,5m Grey (Blister T1)	●	1/8
431002	Coaxial Cable Lead "IEC" Ø 9.5mm Elbowed Shielded Male-Female 2,5m Grey (Blister T1)	●	1/8
ACCESSORIES			
2162	Cable Stripper for Coaxial Cable and Data Cable (Bag B2)		1
DATA			
PATCH-CORDS			
209002	Patch-cord RJ45 U/UTP Cat 6 Cu PVC 1m White (Bag B0)	○	1
209003	Patch-cord RJ45 U/UTP Cat 6 Cu PVC 2m White (Bag B0)	○	1
209004	Patch-cord RJ45 U/UTP Cat 6 Cu PVC 3m White (Bag B0)	○	1
209005	Patch-cord RJ45 U/UTP Cat 6 Cu PVC 5m White (Bag B0)	○	1
209101	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 0.5m Grey (Bag B0)	●	1
209102	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 1m Grey (Bag B0)	●	1
209103	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 2m Grey (Bag B0)	●	1
209104	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 3m Grey (Bag B0)	●	1
209105	Patch-cord RJ45 S/FTP Cat 6A Cu LSFH 5m Grey (Bag B0)	●	1
OPTICAL FIBER			
PRE-TERMINATED PATCH CORDS			
232621	F.O.Patch Cord Single-mode Indoor LSFH "SC/APC" 2m (Bag B4)	●	1/10
232623	F.O.Patch Cord Single-mode Indoor LSFH "SC/APC" 0.5m (Bag B4)	●	1/20
232624	F.O.Patch Cord Single-mode Indoor LSFH "SC/APC-FC/UPC" 2m (Bag B4)	●	1/10
232626	F.O.Patch Cord Single-mode Indoor LSFH "SC/APC" 1m (Bag B4)	●	1/20
AUDIO/VIDEO			
HDMI			
494501	HDMI Cable Male-Male 1.5m Black (Blister T1)	●	1/8
494502	HDMI Cable Male-Male 3m Black (Blister T2)	●	1/10
494503	HDMI Cable Male-Male 5m Black (Blister T2)	●	1/10
494505	HDMI Cable Male-Male 1.5m Black (Bag)	●	1/100

MECHANICAL ACCESSORIES

Ref.	Description	
MAST MOUNTING		
4361	Guy Wire Mounting Kit Ø 45mm	1/5

CLASS A**



▲ 385101



▲ 431001



▲ 2162



▲ 494501



▲ 4361

GENERAL. 1. These general conditions of sale of **TELEVES UK LIMITED**. (Registered Number 2280583) and address at Unit 11 Hill Street Industrial Estate, Cwmbran, Gwent, NP44 7PG, (**hereinafter, the "Seller"**), shall apply to any offer made by the Seller and to any contract of sale concluded by the Seller with any Buyer, whether an individual or a legal entity (**hereinafter, the "Buyer"**). 2. Any sale made by the Seller shall be expressly conditioned to the Buyer's full acceptance of these terms and conditions, as well as to the Buyer's waiver of its own general conditions of purchase. The Buyer is considered to have accepted these general conditions of sale and waived its own when an order is placed. 3. The Buyer acknowledges that these general conditions of sale have been validly placed at his disposal by the Seller prior to the conclusion of the contract of sale and that he has received a copy thereof. 4. Placing an order implies the full and unreserved acceptance of each one of the terms of these general conditions of sale by the Buyer, as well as their validity and efficacy, except when mandatory regulations applicable to consumer relations provide otherwise.

1. OFFER AND EXECUTION OF THE CONTRACT. 1.1. The applicable prices are those indicated in the quotation, offer or proforma provided by the Seller or, in its absence, those contained in the Seller's price list in force on the date of the order's receipt. 1.2. The offers will be subject to acceptance during the period stipulated in them by the Seller and, in the event that no period has been stipulated, during a period of thirty (30) calendar days from the date of the offer. Without prejudice to the foregoing, the Seller may withdraw or revoke its offers at any time before it is accepted by the Buyer. 1.3. The information contained in the product catalogue, website, as well as in any other oral or written communication of the Seller is merely indicative and shall not be binding. Such information is subject to modification, without prior notice, and the Seller shall not be liable for any error or omission contained therein. The Seller reserves the right, without prior notice, to discontinue products, make design or specification changes as part of its product improvement programme or as a method of assisting product availability. 1.4. The sale and purchase shall be deemed to be definitively perfected with the acceptance of the quotation, offer, proforma or tariff catalogue by the Buyer, by placing the corresponding order, once expressly acknowledged by the Seller by e-mail or by any other written means. 1.5. Orders, once confirmed by the Seller, cannot be subject to total or partial cancellation, modification or delay by the Buyer, except with the express consent of the Seller and, in any case, after payment of all the expenses incurred as a result. In the event of cancellation, the Seller reserves the right to charge the Buyer the difference existing between the sale price initially applicable to the products of the order and the price in force at the time of cancellation.

2. PRICE AND TERMS OF PAYMENT. 2.1. The applicable prices shall be those indicated in the quotation, offer or proforma provided by the Seller or, in its absence, those contained in the Seller's price list in force on the date of the order's receipt. The prices published in the Seller's price list, quotation, offer or proforma do not include V.A.T. or other taxes payable by the Buyer, nor any other expenses and/or commissions, including bank charges, incurred in order to make the payment of the price effective, which are exclusively for the responsibility of the Buyer. The Seller may modify the price list at any time. Any modification of the price list shall not affect any pending orders which will continue to be subject to the prices in force on the date on which the order was accepted. 2.2. The terms of payment will be established, in each case, by mutual agreement between the Buyer and the Seller. The Buyer may pay the price for each order, as agreed between the Parties, by bank transfer, irrevocable and confirmed documentary credit, *stand-by* letter of credit as agreed with the Seller, as well as by any other means of payment expressly accepted by the Seller. 2.3. In those cases in which it is applicable, payments will be subject to the Late Payment of Commercial Debts Act, 1998, or any other regulation that replaces it. Under no circumstances may the maximum payment periods laid out in this regulation be exceeded. Any late payment shall entitle the Seller to claim from the Buyer the outstanding price plus the interest accrued according to the aforementioned Late Payment of Commercial Debts Act 1998. 2.4. The breach of the payment obligations of the Buyer will entitle the Seller to opt between terminating the contract, with the corresponding compensation for damages; or to claim payment of the outstanding price with the mentioned accrued interest. The payment of interest shall be not conditioned to prior notice to the Buyer.

3. DELIVERY AND SHIPMENT. 3.1. The delivery periods indicated in the order by the Buyer will always be merely indicative. The seller shall seek performance in good faith, any possible delays shall not entitle the Buyer to

cancel the order, or to claim liability, or penalties of any kind, unless otherwise has been expressly accepted by the Seller. Indicatively, the delivery of the orders will be carried out on the terms agreed, but in no case will the delivery date be an essential condition of the contract. 3.2. Unless otherwise agreed in writing, the goods shall be delivered under Incoterm *Free Carrier (FCA)* – "name placed"- (Incoterms 2020) 3.3. As soon as the Seller places the goods at the disposal of the Buyer, the Buyer shall assume all risks related to the possession, care, and use of the products in accordance with the aforementioned Incoterm and shall also be liable, from that moment, for any damage that the aforementioned products may cause. 3.4. In the event that the Buyer does not take possession of the goods on the agreed delivery term, the delivery shall also be deemed to have been made, and the Buyer shall bear the risk (deterioration, breakdown and definitive loss) and shall pay all the expenses (including storage, insurance and handling) arising from the non-delivery attributable to the Buyer. 3.5. In the event that the Buyer does not take possession of the goods on the agreed delivery term or postpones it unilaterally, the Seller shall be entitled from that time to invoice the full price of the goods on the understanding that delivery has taken place. 3.6. The Seller is entitled to deliver the purchased goods in one or more instalments. When several orders had been placed by the same Buyer, each of them will be considered an independent contract, so that the breach of one of them will not affect the others. 3.7. Regardless of the applicable Incoterm regime, and unless otherwise agreed in the quotation, offer, proforma or any other contractual document, the Buyer shall bear all costs necessary and accrued for the provision of the goods ordered by the Buyer, and in particular the costs of packaging, transport, including handling and unloading, insurance and customs, including export and import costs, which shall be charged to the Buyer as a supplementary charge on the price of the goods.

4. RESERVATION OF TITLE. 4.1. The Seller reserves full ownership of the goods delivered to the Buyer until the price is fully paid. 4.2. A breach of the payment obligation by the Buyer will entitle the Seller to recover the possession of the goods delivered, as well as to use the sums paid by the Buyer as price of the contract, to compensate any damages derived from the breach of the contract. 4.3. In the event that the products have been transformed or integrated into other equipment, the Seller may retain the processed products or the equipment into which the products have been incorporated as a guarantee until the price has been fully paid. The Buyer undertakes to mention this reservation to third parties who may be affected by it and, in particular, to those to whom it delivers, by whatever title, the product covered by the contract.

5. RETURNS. 5.1. The Seller does not accept returns of orders already served, unless otherwise specified in the specific conditions agreed between the Seller and the Buyer or in those cases where the goods have apparent defects, provided that the defects have been communicated in writing to the Seller within ten (10) calendar days from the date of delivery of the goods, and the Seller has ascertained the existence of defects and the responsibility thereof. 5.2. Returns or shipments to the Seller's facilities, whether for replacing the goods purchased under the contract, or to pay for them, must always be made at the Buyer's expense, enclosing the sales invoice. The return of the defective product to the Seller shall be made by the Buyer to the corresponding customs office under the "temporary export" regime, keeping all the documentation relating to said export, especially the export SAD document, in order to enable its eventual re-importation under the same customs regime. 5.3. No return will be admitted that has not been previously authorised by the Seller; once authorised, the Buyer shall have a maximum period of fifteenth (15) calendar days to make it effective.

6. GUARANTEE. 6.1. Unless otherwise provided in the offer or specific conditions agreed, the Seller undertakes to remedy any malfunction of the products caused by a defect in the design, materials or manufacture for a period of 1 year (but if the Buyer is considered to be a "final consumer", according to the applicable consumer legislation, the guarantee period will be the established in the national legislation). Batteries shall only have a guarantee of 6 months from the date of purchase of the goods. In any case, the mandatory legal guarantees imposed by the legislation of the States applicable to the Contract of Sale and Purchase shall be complied by TELEVES UK LIMITED. This guarantee shall never apply to the software, or the services commercialised by the Seller. The guarantees applicable to software and services shall be those specifically delivered with them. 6.2. The Seller's guarantee shall not apply if: 1. The products have not been

transported, stored, maintained, connected, installed, initiated, or used in a proper way and within the electrical values and operating range (input voltage, ambient temperature, IP protection rating...) required by the instructions of the Seller, and particularly those indicated in the user guides, packaging, technical datasheets, and any other documentation accompanying the products or delivered with them, as well as in prescriptions or technical safety and maintenance standards in force in the country in which the goods are intended to be used; or **II.** The malfunction or lack of conformity results from the normal wear and tear derived from the use of the products according to the aforementioned technical instructions or prescriptions. **III.** The malfunction or lack of conformity results from specific materials, components or designs imposed by the Buyer, disregarding whether they have been approved or not by the Seller; or **IV.** The Buyer carries out any form of repair or replacement of the products. The Buyer carries out any repairs or alterations to the Goods, including changes to previously defined configurations and additions or connections of third-party products, without the prior express authorisation of the Seller; or **V.** The malfunction or lack of conformity is due to a cause not attributable to the Seller, particularly when it has its origin in: a) Discoloration, corrosion, degradation, deterioration resulting from the product's exposure to any animal, environmental or vegetable substance or waste matter, oil derivatives, radiation, acid rain, pollution or contamination due to any other element; b) Exposure to fire, water, snow, rain, humidity, or fluids, unless it is indicated in the product's technical specifications that it is adequate and resistant to such weather conditions; c) Force majeure events, such as, among others, fires, natural and atmospheric events, earthquakes, floods, electric storms, lightning, chemical and biological events, war, war-like events, accidents, vandalism, terrorist attacks, or damages due to the influence of people or animals; d) Any failure or incident in the electric or communications networks, such as cuts, fluctuations or surges that exceed the limits laid out in the product's technical documentation or within the applicable laws and regulations. **6.3.** Unless an imperative rule to the contrary is applicable, the option to repair or replace a defective element corresponds exclusively to the Seller and will not change the starting date of the guarantee period of the order, which will continue to be the remaining time of the period indicated in section 6.1, or a six (6) months term from the date of dispatch to the Buyer, whichever is longer. In the event that the reparation or replacement is unfeasible, or its cost is disproportionate, the Seller shall replace the product for another product of equal or superior characteristics. **6.4.** The above guarantee shall be automatically excluded if the Buyer carries out any type of repair or modification to the products without the express authorisation of the Seller. This guarantee does not cover, under any circumstances, expenses relating to the inspection for the defective product on the premises, de-installation, re-installation, as well as any other expenses that may be incurred by the Buyer in connection with the repair or replacement of the defective product. **6.5.** Any guarantee on accessories to the goods such as packaging and other components which accompany the goods but which are not integral parts of the goods is excluded. **6.6.** All units of the Seller's lighting products with defects in their LED parts and chips are excluded from this guarantee, provided that their failure rate is less than 15%, and it does not affect the functioning of the application for which the products were designed. Regarding these products the guarantee is limited only to those which do not exceed 4.200 operating hours/year under ambient temperature of less than those contained in the product's technical documentation. **6.7.** The efficacy of this guarantee and its duration are conditioned to the previous access of a representative or authorised technician from the Seller to the products to check the alleged malfunction or lack of conformity. Claims against this guarantee must be carried out in the prescribed manner indicated in the Repair Form or any equivalent document. Claims must at least include the following information: **I.** Identification of the product affected by the malfunction or lack of conformity. **II.** Date of purchase and/or installation and the corresponding invoices. **III.** Detailed description of the detected malfunction or lack of conformity. **IV.** In the case of lighting products, number and rate of installation failures. **V.** In the case of lighting products, application, operating hours and switching cycles. Defective product/s must be shipped in its/their original packaging with all its/their parts and components in the manner and within the terms indicated by the Seller. The shipment shall be made at the Buyer's expense, and shall also be returned at the Buyer's expense. **6.8.** In the event that the Seller decides that the product is free from defects or lacks of conformity and therefore does not need to be repaired or replaced according to the terms of this guarantee, the Seller may charge on the Buyer its inspection and claims management costs, as well as the price of the reparation or replacement,

provided that one of these options is requested by the Buyer. **6.9.** Notwithstanding the statutes of limitations that apply to the remedies available for the Buyer under this guarantee, the Buyer, in any event, must give notice of the malfunction or lack of conformity to the Seller within thirty (30) calendar days from the date in which the Buyer become aware of it.

7. LIABILITY. 7.1. The contractual liability of the Seller shall be limited, in any case, to a maximum amount equivalent to 10% of the price of the contract under which the claim has arisen. Under no circumstances will the Seller be liable before the Buyer, nor before third parties related to it, for loss of profit, loss of income, downtime costs or, in general, for losses of any kind or indirect damages which the Buyer may suffer as a result of the late delivery or non-delivery or defective delivery of the goods. **7.2.** The limitation of liability contained in this clause shall prevail over any limitation contained in any other contractual document which is contradictory or inconsistent with this clause unless such provision limits the Seller's liability to a greater extent. **7.3.** The Buyer waives the Seller's liability for any and all claims by third parties for damage caused by or in connection with any of the goods delivered by the Seller, including claims brought against the Seller as producer of the goods pursuant to any agreement on product liability, unless such damage is due to the Seller's wilful misconduct or gross negligence. **7.4.** In no event shall national rules imposing punitive damages apply to the contracts governed by these terms.

8. FORCE MAJEURE. The Seller will not be liable before the Buyer in any way, nor will it be deemed to be in breach of the Contract, for delay in performance or failure to perform its obligations under the Contract, if such delay or failure is due to or arises from an event of Force Majeure. Force Majeure will be interpreted as any cause beyond the Seller's control and responsibility area, which cannot be foreseen and/or avoided or the effects of which could not have been reasonably foreseen. Force Majeure shall be considered to be, among others, general strikes in the sector, riots, mutinies or wars, natural and atmospheric phenomena, legislative and administrative decisions, as well as pandemic situations, as well as the inability to procure materials or items necessary for the performance of the Contract. In the event of force majeure, the Seller may, at its sole option, delay performance or cancel part or all of the order without any liability for the Seller and without prejudice to the Buyer's obligation to pay for any goods actually delivered.

9. COMPLIANCE, CODE OF ETHICS AND SALES RESTRICTIONS. 9.1. The Buyer undertakes to comply with the regulations of the legal system applicable from each moment, in particular the national and international rules and regulations relating to the protection of human rights established in the United Nations Global Compact, the abolition of forced and child labour, the elimination of discrimination, anti-corruption, competition, labour, occupational health and safety and environmental responsibility regulations. It also declares that it is aware of and complies with the Regulatory Compliance Programme, CSR and Code of Ethics of the TELCOR Group of which the Seller is a member. The breach of any of the above obligations by the Buyer will entitle the Seller to terminate the contract, without prior notice and to claim any damages caused. **9.2.** Neither the Buyer nor its customers shall sell, offer for sale, transfer or make offers for the sale of the goods to any country subject to any export restrictions and/or embargo of any kind which may affect the goods which are the subject of the sale. In particular, under no circumstances may the goods sold and/or exported, nor any of their parts, pieces or components, be re-exported, directly or indirectly, to States in respect of which the EU has adopted measures of embargo or prohibition of sale or export in respect of products of the same nature.

10. INTELLECTUAL PROPERTY. 10.1. The goods purchased may contain software, the use of which shall be governed by the terms and conditions of the respective licences accompanying the software. The Buyer has the non-exclusive right to use the software for the sole purpose of using the purchased goods. To the extent that the software includes Open Source Software ("OSS"), the Seller shall provide the applicable OSS licence terms and conditions which shall prevail over these general terms. Details of any third-party software and OSS included in the goods being sold is available in the software documentation (SW Declaration). **10.2.** The intellectual property of the offer and the information attached thereto of the goods subject to sale, as well as of the elements, drawings or software belong to the Seller or its suppliers, and therefore their use by the Buyer for purposes other than the completion of the order, as well as their total or

partial copying or transfer to third parties is expressly prohibited. **10.3. Use of the Seller's registered trademarks.** All the distinctive signs included in the goods covered by this Contract and in any document or web site of reference are registered and unregistered trademarks owned by the Seller. Unless otherwise agreed in writing, the Buyer is not authorised to use the Seller's trademarks and accordingly shall not reproduce, display or otherwise use any distinctive signs without the Seller's prior written permission. In the event that the Buyer is interested in using any of the brands owned by the Seller, either in promotional materials, advertising or marketing of the goods purchased, he must expressly request it and receive prior authorisation from the Seller, for which it will be necessary to fill in the form Request for authorisation to use a brand. The use of the brands owned by the Seller must be carried out in all cases in accordance with the terms and conditions established in the Policy for the use of the Seller's commercial brands, accessible via the following link: uk.televes.com/identity-guidebook. This clause applies equally to the Buyer of the Buyer and to any other subsequent buyers or sub-buyers, in the event of resale of the purchased goods. Failure to comply with this provision is deemed a breach of contract, notwithstanding the Seller's right to exercise, cumulatively, any other actions aimed at protecting its intellectual property rights to which it could be entitled.

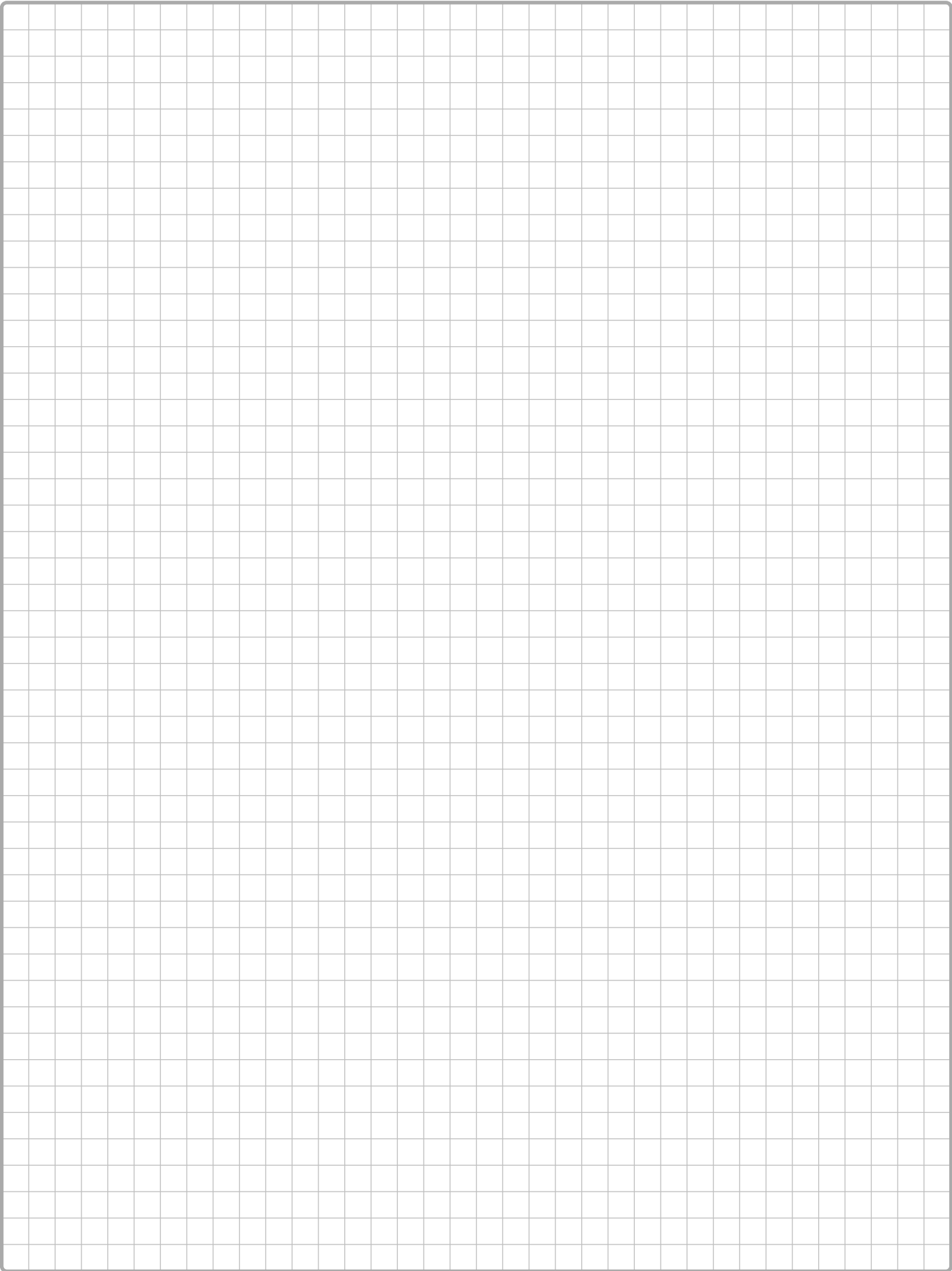
11. PROJECTS AND SOLUTIONS. In the event that the offer or sale involves products of the Seller which require specific adaptation or customisation to suit the needs of the Buyer or which may require installation by the Seller or specific studies to guarantee their adaptation to a specific environment (hereinafter, "Projects or Solutions"), the following conditions shall also apply. **11.1.** The Buyer, in order for the offer to be adjusted to its needs, must provide the Seller with all the characteristics, functionalities and installation conditions of the required solution prior to making the offer. **11.2.** The Seller may specify in the offer, in the event that the sale does not take place, the cost to be paid by the Buyer for studies or reports carried out for the purpose of implementing the solution. Unless otherwise agreed, the offer does not include the installation of the solution at the Buyer's premises. **11.3.** The Buyer shall co-operate as required by the Seller to enable the implementation of the solution in the agreed manner and time. If necessary, it is the Buyer's responsibility to obtain licences, permits and authorisations for the implementation of the solution. If the solution cannot be implemented within the agreed period for reasons attributable to the Buyer, the Seller may invoice the Buyer for all additional expenses incurred as a result of the delay caused by the Buyer. Scheduled dates and deadlines shall also be reasonably extended. **11.4.** The Buyer must follow the instructions given by the Seller for the proper functioning of the installed solution and, in particular, must regularly install all Software Updates published for repairing errors and vulnerabilities and/or for improving the software functionalities. **11.5.** For Projects and Solutions, the starting date of the aforementioned guarantee shall be calculated from the date on which the project has been delivered or received or, where applicable, from the date on which the products have been made available to the Buyer. In any case, the Projects and Solutions shall be understood to have been received, to the full satisfaction of the client, after fifteen (15) days following the placing at their disposal of the Certificate of Delivery/Receipt, without any objection having been manifested in this respect. **11.6.** The aforementioned guarantee shall not apply when the defective functioning of the solution is due to materials, components or designs supplied or imposed by the Buyer. **11.7.** When a contract includes Projects or solutions,

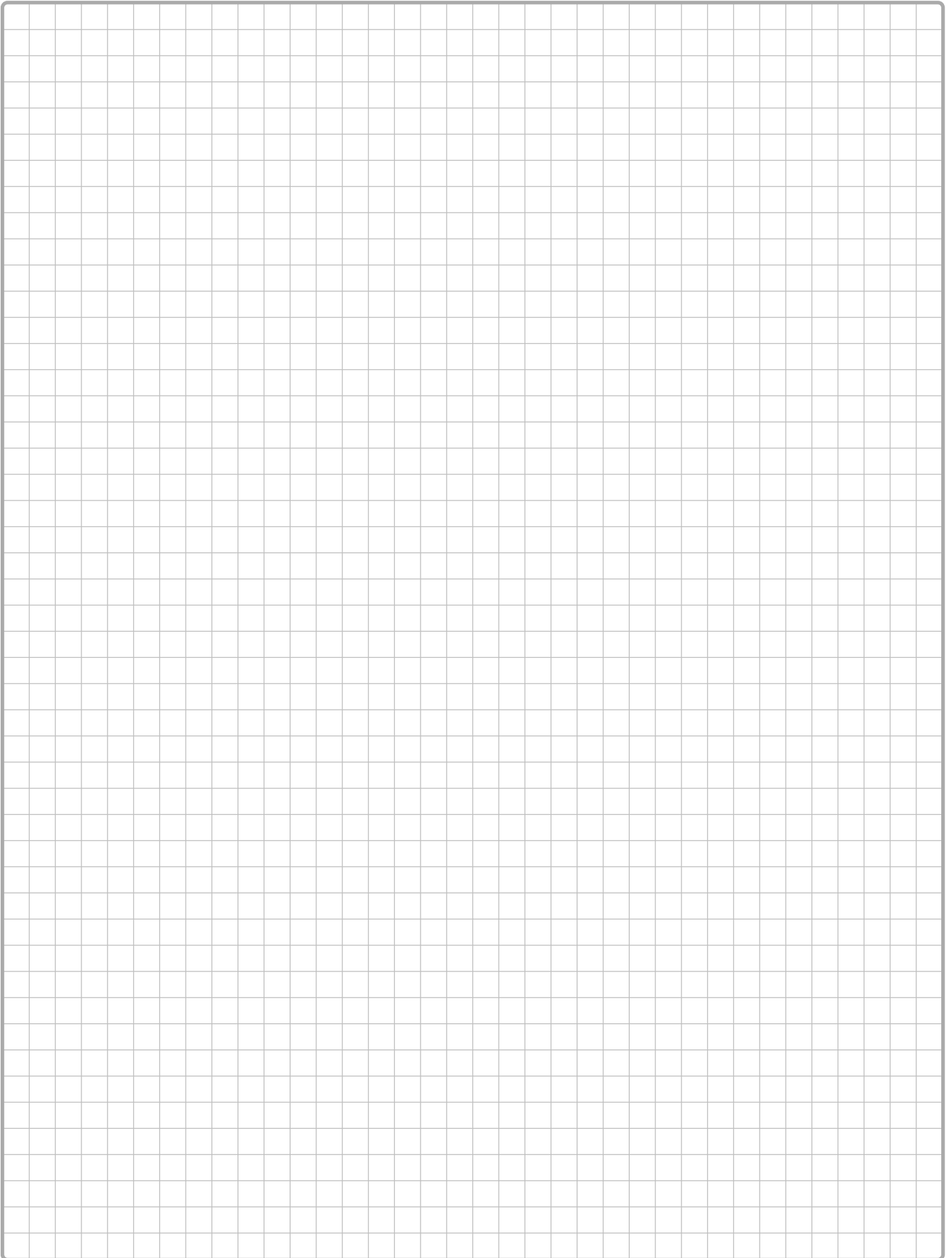
the Seller shall be entitled to invoice 50% of the total amount of the price at the time of placing the order, as an advance payment. **11.8.** The Seller shall not assume any liability in relation to configurations of any kind requested in the Projects and Solutions by the Buyer and/or its customers and, in particular, for malfunctions, errors, costs, damages and/or liability of any kind that may arise therefrom. **11.9.** In the case of solutions that include a telecommunications operator network connectivity service, the terms and conditions for the provision thereof shall be governed by those agreed at any given time with the respective operator, without TELEVES being liable in any way for the contracted service.

12. INFORMATION ON PERSONAL DATA PROTECTION. Party responsible: TELEVES UK LIMITED. **Purpose:** to manage registrations, cancellations, orders, discounts, debt collection, compensations and customer objectives based on the maintenance of the contractual relationship. **Legitimation:** Execution of the purchase sale contract and maintenance of commercial relations. TELEVES UK LIMITED shall not make international transfers of your personal data and, in particular, to States that do not have an adequate level of protection in accordance with the decisions of the European Commission. **Recipients:** Companies of TELEVES CORPORATION GROUP (which may be found in the data protection policy). Data processors inside and outside the EU. Public bodies for compliance with legal obligations. **Rights:** Rights to access, rectify, cancel and oppose the processing of your data, as well as other rights attributed to you by applicable national regulations and additional information that you may check in the uk.televes.com/televes-privacy. You may exercise the rights you are entitled to as the owner of the personal data being processed by sending a communication to dpo@televescorporation.com, attaching a document proving your identity and providing the details necessary to process your request.

13. LAW AND JURISDICTION. The relations between the parties arising from this contract are governed by English Law. The Buyer and the Seller expressly and formally submit themselves, for any question arising from the fulfilment and execution of the contractual relationship to the Courts and Tribunals of the Seller address, with express waiver of their own territorial jurisdiction, except for those jurisdictions which, according to the law applicable to the contract, cannot be waived, all this without prejudice to the right of the Seller to bring any legal proceedings in any other competent jurisdiction.

14. LANGUAGE. These general conditions of sale have been drawn up in Spanish and English. In the event of any discrepancy between the two versions, the Spanish version shall prevail.





TELEVES UNITED KINGDOM LTD

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Cwmbran, Gwent Np44 7Pg
(UNITED KINGDOM)

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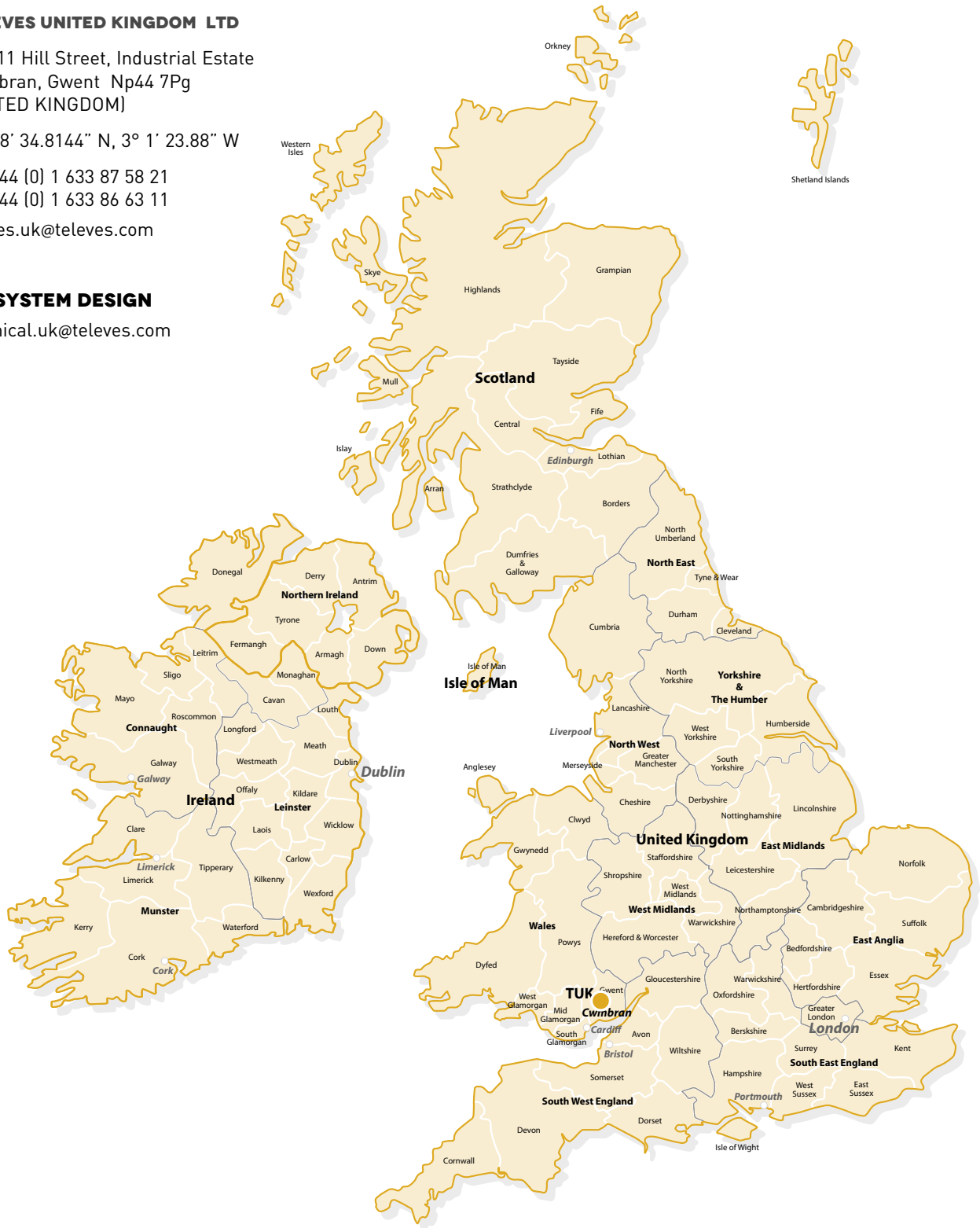
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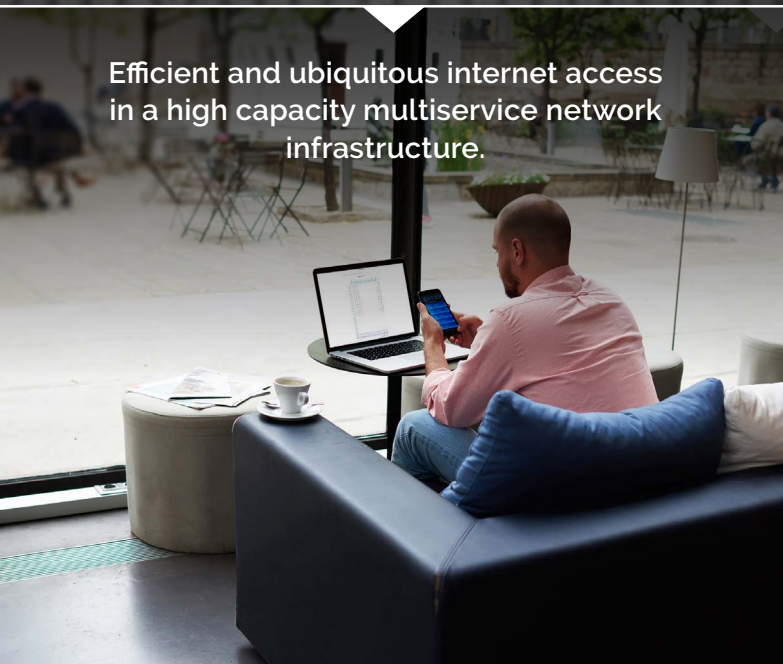
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