

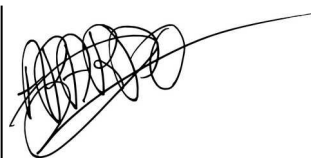
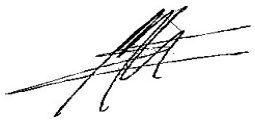
On 19/09/2022 document No. **TRE09220000 [0]** is applied to the following elements:

REFERENCE	DESCRIPTION
1444	ANT. OMNINOVA I/B
144401	OMNINOVA BOSS ANT.BI/FM/B3/U G26/20/28/30
1050	BIII/DAB ANT. 174...240MHz 3ELE. G8dBi SINGLE
105001	BIII/DAB ANT. 174...240MHz 3ELE. G8dBi MULTIP.
106501	BIII TERREST.ANT. (Ch5-12) 7ELE. G9.5dBi SINGLE
106601	V BIII TERREST.ANT. (Ch5-12) 10ELE. G9dBi SINGLE
106711	BIII ANTENNA (Ch5-12) G9dBi SINGLE BLACK
108320	PANEL TERR.ANT.UHF(Ch21-48) 4DIPOL.G13dBi
108341	PANEL TERR.ANT.U(Ch21-60) 4DIPOL.G14dBi BL.
111840	YAGI EDGE MIX(Ch5-12/21-60) G2/10dBi MULT.
111842	YAGI EDGE MIX(Ch5-12/21-60) G2/10dBi SING.
111940	YAGI EDGE ANT.U(Ch21-60) 12EL.G10dBi ORA.MUL.
111941	YAGI EDGE ANT.U(Ch21-60) 12EL.G10dBi BLA.MUL.
111942	YAGI EDGE ANT.U(Ch21-60) 12EL.G10dBi ORA.SING.
112042	V MIX ANT.(Ch5-12/21-60) 26EL. G8.5/13dBi SING.
112120	L 700 TERR.ANT. UHF(Ch21-48) 18EL. G13dB ORA.
112121	L 700 ANT. UHF(Ch21-48) 18EL. G13dB BLA.
112140	L 790 TERR.ANT. UHF(Ch21-60) 18EL. G13dB ORA.
112141	L 790 ANT. U(Ch21-60) 18ELE. BL.
1201	FM TERREST.ANT. 88...108MHz CIRCULAR G1dBi
120101	FM TERREST.ANT. 88...108MHz CIRC.G1dBi Ø60
144011	DINOVA BOSS ANT. UHF(Ch21-60) G34dBi
144012	KIT: DINOVA BOSS ANT. UHF(Ch21-60) G34dBi
144021	DINOVA BOSS ANT. UHF(Ch21-48) G34dBi
144022	KIT: DINOVA BOSS ANT. UHF(Ch21-48) G34dBi
144211	DINOVA BOSS MIX V/U(Ch5-12/21-60) G24/33dBi
144212	KIT:DINOVA BOSS MIX V/U(Ch5-12/21-60)G24/33dBi
144221	DINOVA BOSS MIX V/U(Ch5-12/21-48) G24/33dBi
144223	DINOVA BOSS MIX V/U(Ch5-12/21-48) G27/32dBi
144420	OMNINOVA BOSS BI/FM/BIII/U
144440	OMNINOVA BOSS BI/FM/B3/U
144520	CAMPNOVA BOSS FM/BIII/UHF (LTE700)
148011	UHF ANTENNA (Ch21-60) G15dBi SINGLE BLA.

REFERENCE	DESCRIPTION
148031	UHF ANTENNA (Ch21-48) G1dBi SINGLE BLACK
148111	ANTENNA(Ch5-12/21-60) G9/15dBi SING.BLA.
148131	ANTENNA(Ch5-12/21-48) G9/15dBi SING.BLA.
148821	ELLIPSE MIX ANT.(Ch5-12/21-48) + PSU (SINGLE)
148822	ELLIPSE MIX ANT.(Ch5-12/21-48) + PSU (MULT.)
148920	ELLIPSE ANTENNA UHF(Ch21-48) G38dBi (MULTIP.)
148921	ELLIPSE ANTENNA UHF(Ch21-48) + PSU (SINGLE)
148923	ELLIPSE ANT. UHF(Ch21-48)+ UK PSU (SINGLE)
148924	ELLIPSE ANT. UHF(Ch21-48) +PSU (SINGLE) Ø60
148925	ELLIPSE ANTENNA UHF(Ch21-48) + PSU (SINGLE)
149201	V ZENIT UHF G15dBi SINGLE
149202	V ZENIT ANT.UHF (Ch.21-58/59/60 CONFIG.) MULT.
149212	V ZENIT UHF G15dBi MULT.BL.
149221	V ZENIT TERR.ANT. UHF(Ch21-48) G15dBi SING.
149222	V ZENIT TERR.ANT. UHF(Ch21-48) G15dBi MULT.
149281	V ZENIT TERR.ANT. UHF (Ch14-51) G15dBi SING.(US)
149301	V ZENIT MIX (Ch.5-12/21-58/59/60) G8.5/15dBi SING.
149302	V ZENIT MIX (Ch.5-12/21-58/59/60) G8.5/15dBi MULT.
149321	V ZENIT MIX (Ch5-12/21-48) G8.5/15dBi SING.
149381	V ZENIT MIX HiVHF/UHF (Ch7-13/14-51) SINGLE (US)
149421	DAT BOSS MIX (Ch5-12/21-48) G36.5/41dBi SING.
149422	DAT BOSS MIX (Ch5-12/21-48) G36.5/41dBi MULT.
149441	DAT BOSS MIX (Ch5-12/21-60) G36.5/44dBi SING.
149442	DAT BOSS MIX (Ch5-12/21-60) G36.5/44dBi MULT.
149721	DAT BOSS LR ANT. UHF(Ch21-48) G47dBi SING.
149740	DAT BOSS LR ANT. UHF(Ch21-60) G47dBi SING.
149821	DAT BOSS MIX LR (Ch5-12/21-48) G36.5/46dBi S.
149921	DAT BOSS ANT. UHF(Ch21-48) G42dBi SING.
149922	DAT BOSS ANT. UHF(Ch21-48) G42dBi MULT.
149924	DAT BOSS ANT. UHF(Ch21-48) G 42dBi MULT.Ø60
149941	DAT BOSS ANT. UHF(Ch21-60) G45dBi SINGLE
149942	DAT BOSS ANT. UHF(Ch21-60) G45dBi MULTIP.
149944	DAT BOSS ANT.UHF(Ch21-60) G 45dBi MULT.Ø60
650101	4GNOVA ANT.4G (0.7...0.96/1.7...2.7GHz) G7dBi "N"
650102	4GNOVA ANT.4G (0.7...0.96/1.7...2.7GHz) G7dBi "SMA"
6574	FIBERGLASS 5/8 VHF 150...170MHz G2dBi

REFERENCE	DESCRIPTION
6620	MOBILE ANT. WAVE 1/4 FM 68...174MHz STAIN.ST.
6632	MOBILE ANT. 1/4 WAVE VHF 144..470MHz STAIN.ST.
802440	YAGI TERR.ANT. UHF(Ch21-60) 10EL.G8.5dBi ORA.
802441	YAGI TERR.ANT. UHF(Ch21-60) 10EL.G8.5dBi BLA.

REFERENCES CONTAINING THE ABOVE ELEMENTS

TEST REPORT EN 60728-11: 2017 + A11:2018 Cable networks for television signals, sound signals and interactive services Part 11: Safety	
Report Number.....	TRE09220000
Tested by (name + signature).....	Antonio Pardo 
Witnessed by (name + signature).....	Eduardo Castro 
Date of issue.....	19/09/2022
Testing Laboratory.....	Ladetel
Address	Volta do castro, s/n 15706 Santiago de Compostela - Spain
Applicant's name.....	Televés, S.A.
Address	Benéfica de Conxo, 17 15706 Santiago de Compostela - Spain
Test specification:	
Standard.....	EN 60728-11: 2017 + A11:2018 IEC 60728-11:2016
Test procedure.....	-----
Non-standard test method.....	-----
Test Report Form	IECEN60728-11
Test Report Form No.....	V01
Test item description.....	External antenna
Trade Mark	Televes
Manufacturer	Televes, S.A.
Model/Type reference.....	External antenna
Ratings.....	----

Possible test case verdicts:	
Test case does not apply to the test object.....:	N/A
Test object does meet the requirement.....:	P(ass)
test object does not meet the requirement.....:	F(ail)
Testing	
Date of receipt of test items.....:	02/09/2022
Date(s) of performance of tests.....:	19/09/2022

EN 60728-11			
Clause	Requirement - Test	Result	Verdict
4	GENERAL REQUIREMENTS		P
4.1	General.....:		P
4.2	Mechanical requirements.....:		P
4.3	Accessible parts		P
4.4	Laser radiation.....:		N/A
5	PROTECTION AGAINST ENVIRONMENTAL INFLUENCES		P
6	EQUIPOTENTIAL BONDING AND EARTHING		N/A
6.1	General requirements		N/A
6.2	Equipotential bonding mechanisms.....:		N/A
6.3	Equipotential bonding in meshed systems.....:		N/A
6.3.1	References to other standards.....:		N/A
6.3.2	General on a.c. mains.....:		N/A
6.3.3	AC power distribution and connection of the protective conductor		N/A
6.3.4	Dangers and malfunction.....:		N/A
6.3.5	Measures.....:		N/A
7	MAINS-SUPPLIED EQUIPMENT		P
8	REMOTE POWER FEEDING IN CABLE NETWORKS		P
8.1	Remote power feeding.....:		P
8.1.1	Maximum allowed voltages		P
8.1.2	General provisions for equipment.....:		P
8.1.3	Current-carrying capacity and dielectric strength of the components:		P
8.2	Remote powering from subscriber premises.....:		N/A

EN 60728-11			
Clause	Requirement - Test	Result	Verdict
9	PROTECTION AGAINST CONTACT AND PROXIMITY TO ELECTRIC POWER DISTRIBUTION SYSTEMS		P

9.1	General		P
9.2	Overhead lines.....		P
9.2.1	Overhead lines up to 1 000 V		P
9.2.2	Overhead lines above 1 000 V.....		P
9.3	House installations up to 1 000 V.....		P

10	SYSTEM OUTLETS AND TRANSFER POINTS		N/A
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10.1	General		N/A
10.2	System outlet		N/A
10.2.1	Types of system outlets.....		N/A
10.2.2	Fully isolated system outlet		N/A
10.2.3	Semi-isolated system outlet.....		N/A
10.2.4	Non-isolated system outlet with protective element....		N/A
10.2.5	Non-isolated system outlet without protective element:		N/A
10.2.6	Fully-isolated system outlet provided by means of a FFTH system:		N/A
10.3	Transfer point.....		N/A

11	PROTECTION AGAINST ATMOSPHERIC OVER-VOLTAGES AND ELIMINATION OF POTENTIAL DIFFERENCES		P
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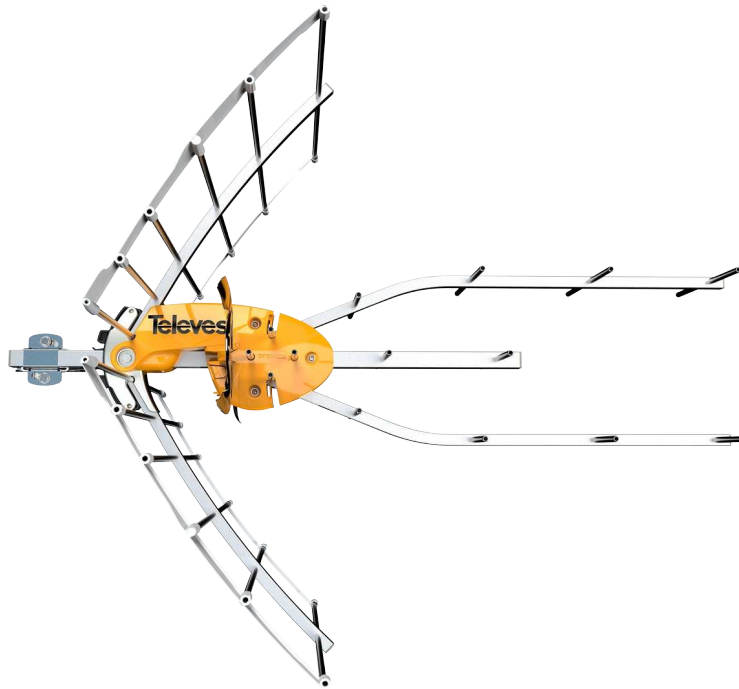
11.1	General.....		P
11.2	Protection of the antenna system.....		P
11.2.1	Selection of appropriate methods for protection of antenna systems		P
11.2.2	Building equipped with a lightning protection system (LPS):		N/A
11.2.3	Building not equipped with an LPS		N/A
11.3	Earthing and bonding of the antenna system.....		P
11.3.1	Internal protection system.....		P
11.3.2	Earthing conductors.....		N/A
11.3.3	Earth termination system		P
11.4	Overvoltage protection.....		P

EN 60728-11			
Clause	Requirement - Test	Result	Verdict

12	MECHANICAL STABILITY		P
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12.1	General requirements.....:		P
12.2	Bending moment.....:		P
12.3	Wind-pressure values.....:		P
12.4	Mast construction.....:		P
12.5	Data to be published.....:		P

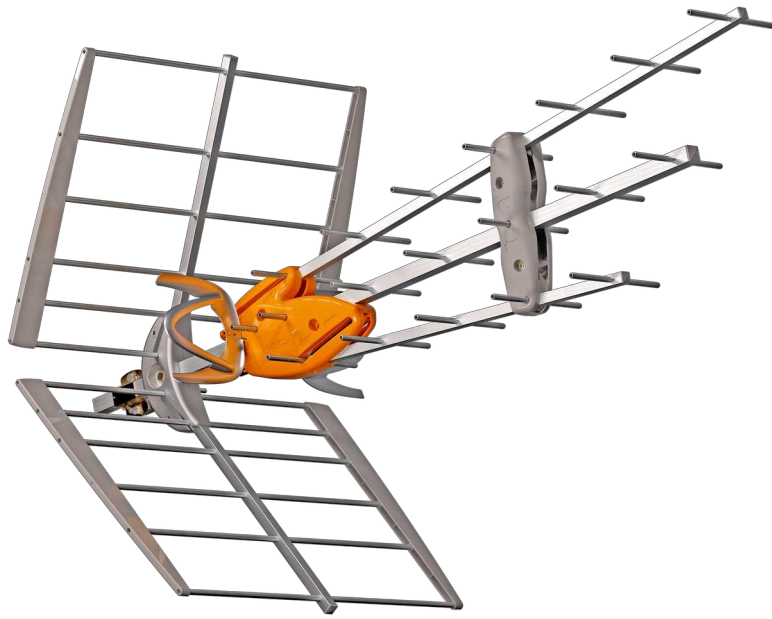
ANNEX 1
Photos



Antenna ELLIPSE UHF



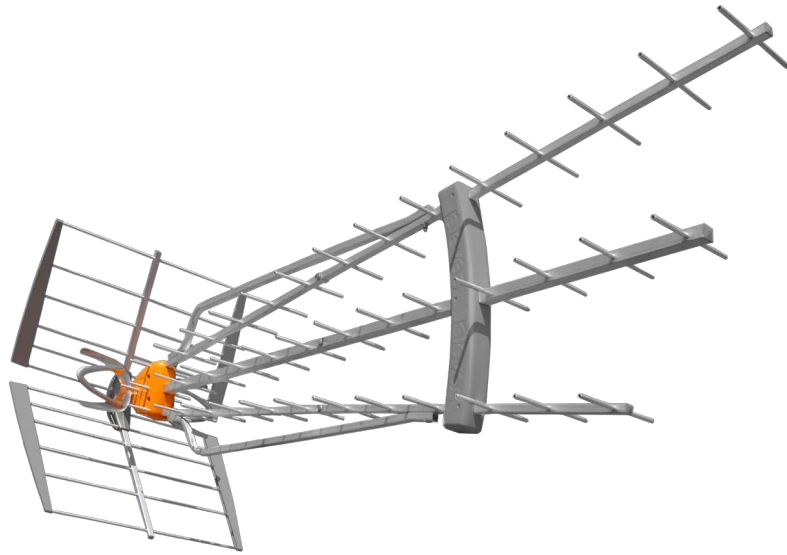
Antenna ELLIPSE MIX



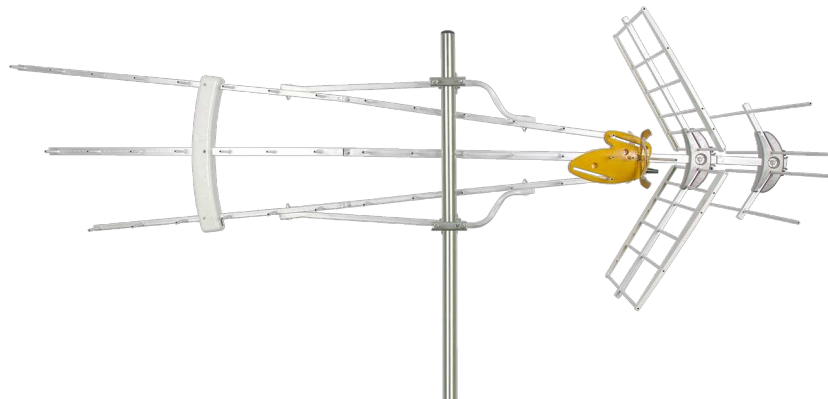
Antenna BOSS UHF



Antenna BOSS MIX



Antenna BOSS LR UHF



Antenna BOSS MIX LR



Antenna 4GNOVA



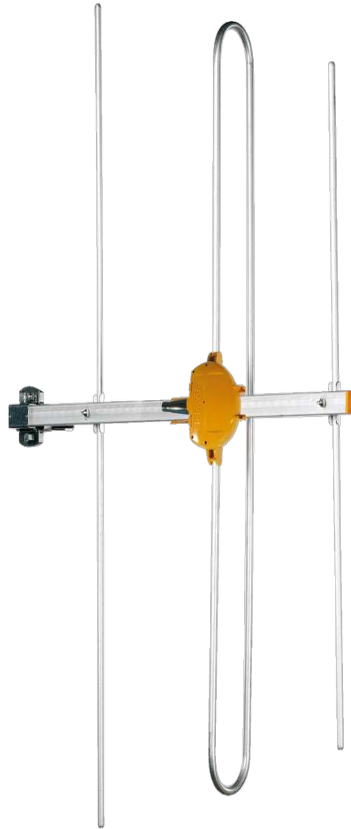
Antenna DINOVA BOSS



Antenna OMNINOVA BOSS



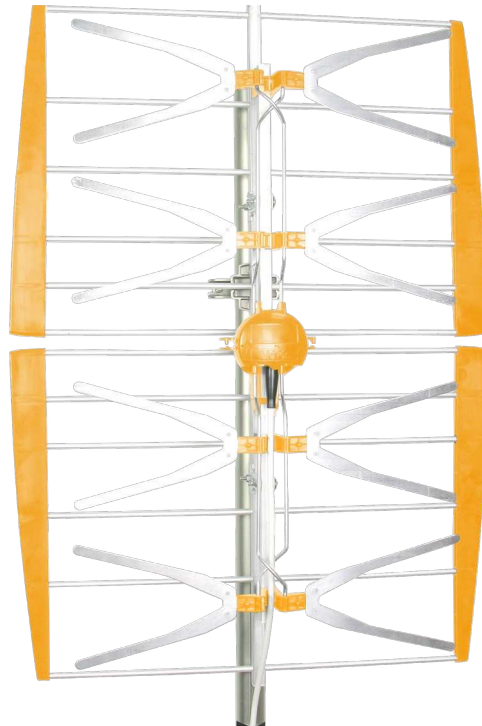
Antenna CAPNOVA BOSS



Antenna BIII/DAB



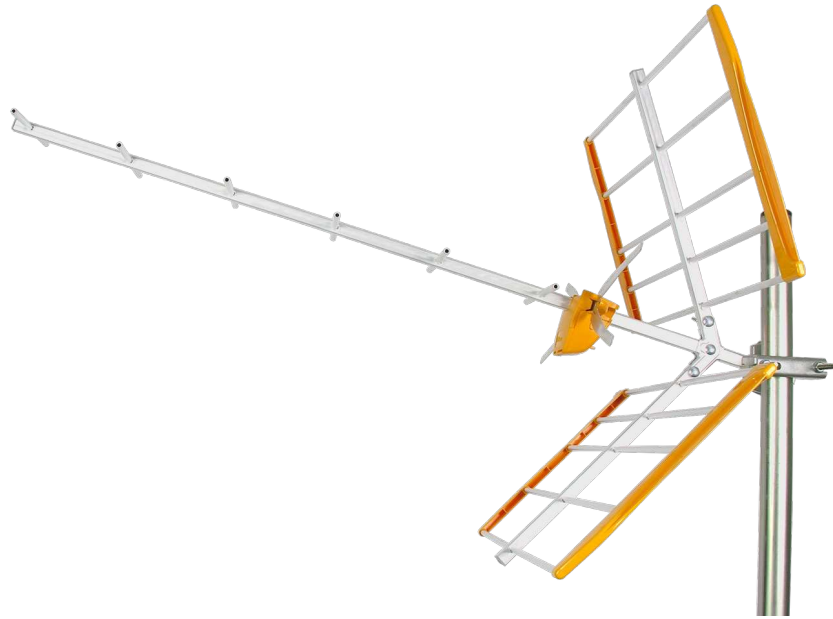
Antenna BIII



Antenna panel UHF



Antenna YAGI EDGE MIX



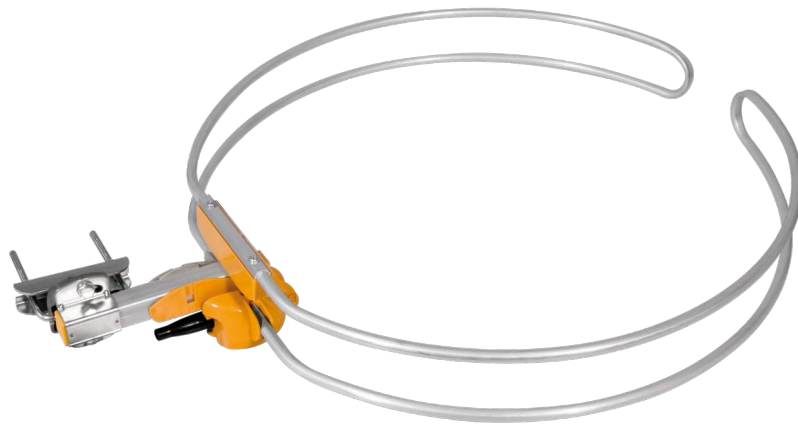
Antenna L UHF



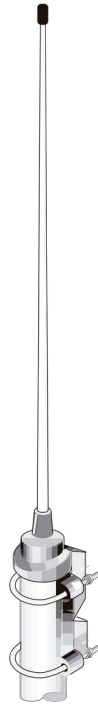
Antenna ZENIT UHF



Antenna ZENIT MIX



Antenna FM



Antenna coaxial VHF



Antenna mobile 1/4 wave