



# Switching and installation examples



For sat and cable television components



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*excellence in digital ...*

*excellence in digital ...*

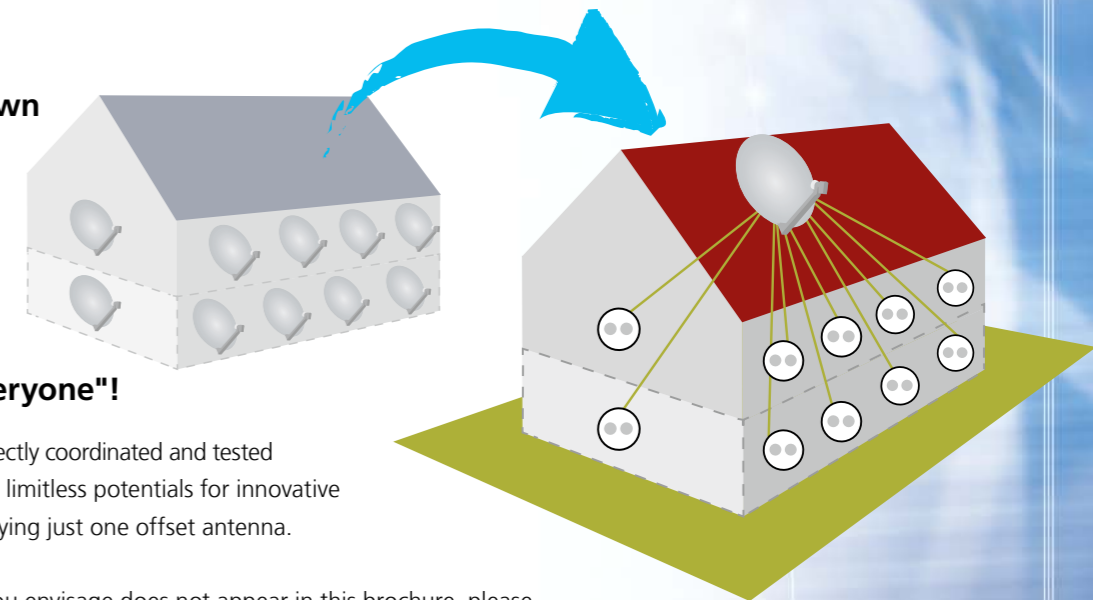
# Communication

Communication defines our everyday life, informs us, imparts knowledge and experience. It supports our understanding and helps us solving problems.

WISI's highly-motivated staff is fully committed to provide you with the state-of-the-art technology for communication today and tomorrow.



Everyone has their own offset antenna ...



**WISI has "one for everyone"!**

The WISI system, featuring perfectly coordinated and tested components, offers you almost limitless potentials for innovative multiple-user operation employing just one offset antenna.

If the number of subscribers you envisage does not appear in this brochure, please contact WISI. Our planning department will be happy to assist you. Contacts details and further information by e-mail at [export@wisi.de](mailto:export@wisi.de)






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# Multiple-user operation

## For 4 subscribers

Cannot be expanded for additional subscribers

 <b>Offset antennas</b>
<ul style="list-style-type: none"> <li>· OA 36 G, H or I</li> <li>· OA 38 G, H or I</li> <li>· OA 85 G, H or I</li> <li>· OA 78, OA 78 B</li> <li>· OA 98, OA 98 B</li> </ul>
 <b>Feed system/LNB</b>
<ul style="list-style-type: none"> <li>· OC 06 A</li> </ul>
 <b>Cables</b>
<ul style="list-style-type: none"> <li>· MK 90 F, MK 95 C, MK 96 F</li> </ul>
 <b>Receivers</b>
<ul style="list-style-type: none"> <li>· OR 184, OR 234, OR 285, OR 294, OR 597</li> </ul>
 <b>Sockets</b>
<ul style="list-style-type: none"> <li>· DB 03, DB 33, DB 52, DB 53</li> </ul>









### At one glance:

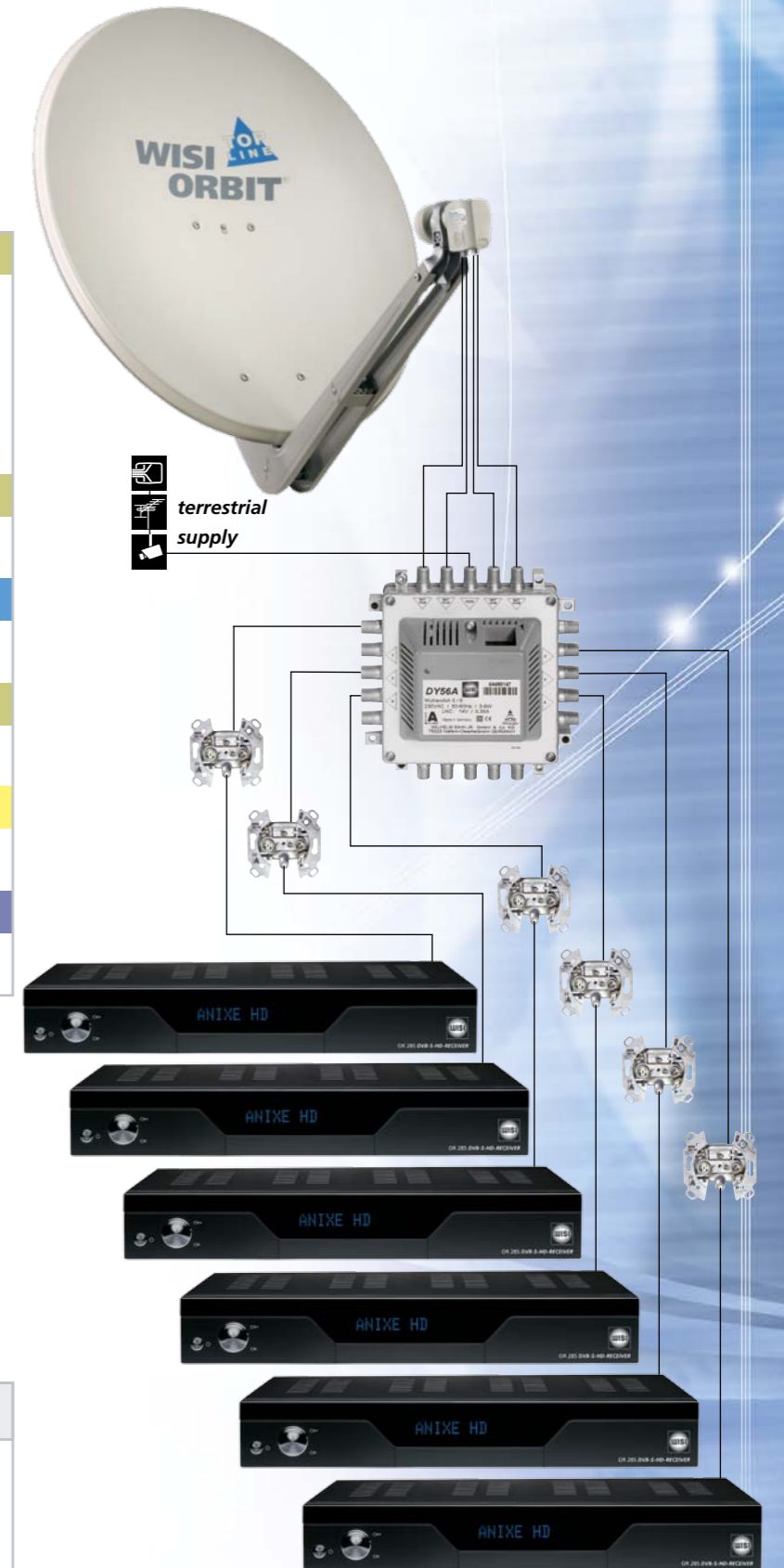
- 1 satellite, 4 Sat IF layers, without terrestrial
- 4 subscriber connections direct to the Quad-Switch-LNB

# Multiple-user operation

## For 6 subscribers

Cannot be expanded for additional subscribers

 <b>Offset antennas</b>
<ul style="list-style-type: none"> <li>· OA 36 G, H or I</li> <li>· OA 38 G, H or I</li> <li>· OA 78, OA 78 B</li> <li>· OA 85 G, H or I</li> <li>· OA 98, OA 98 B</li> </ul>
 <b>Feed system/LNB</b>
<ul style="list-style-type: none"> <li>· OC 04 A</li> </ul>
 <b>Cables</b>
<ul style="list-style-type: none"> <li>· MK 90 F, MK 95 C, MK 96 F</li> </ul>
 <b>Multiswitch</b>
<ul style="list-style-type: none"> <li>· DY 56 A</li> </ul>
 <b>Receivers</b>
<ul style="list-style-type: none"> <li>· OR 184, OR 234, OR 285, OR 294, OR 597</li> </ul>
 <b>Sockets</b>
<ul style="list-style-type: none"> <li>· DB 03, DB 33, DB 52, DB 53</li> </ul>



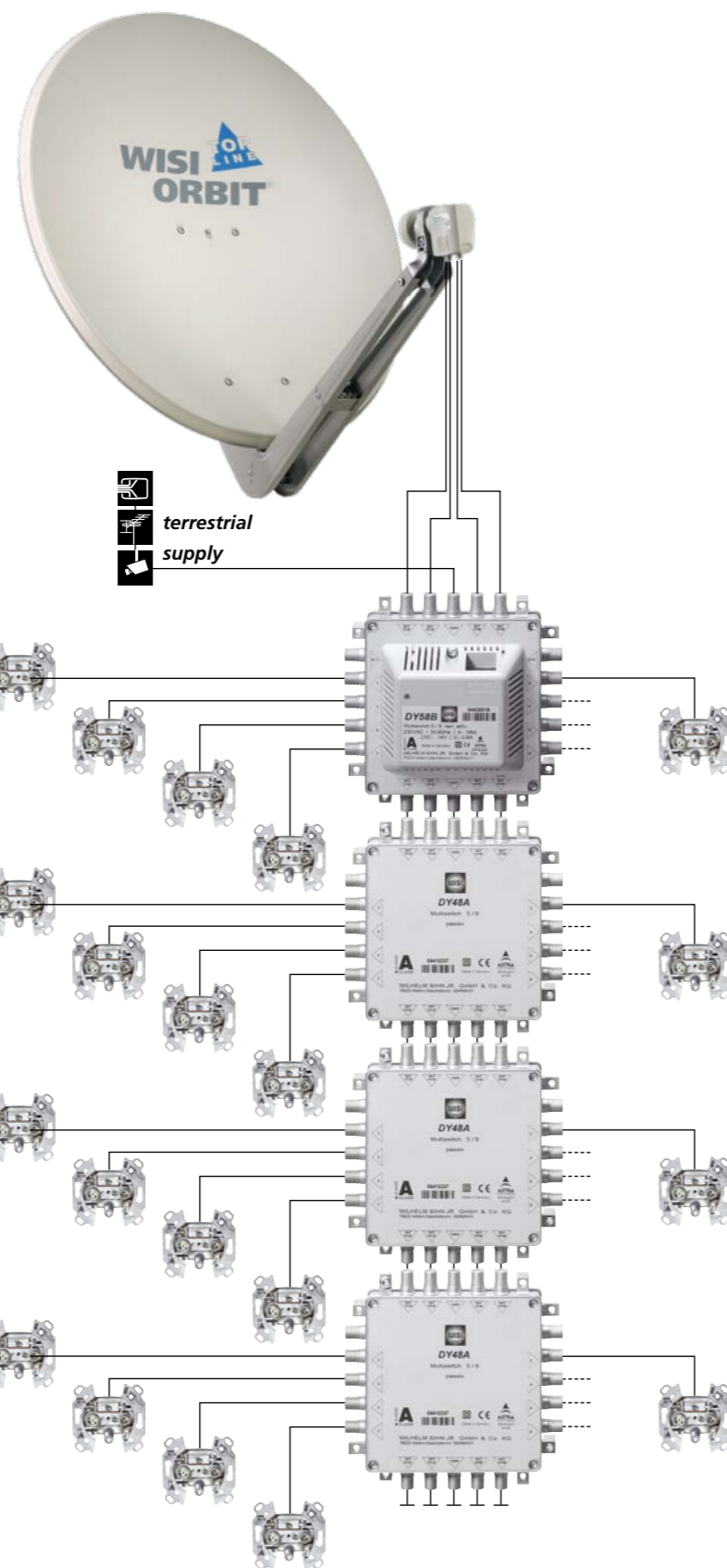
### At one glance:

- 1 satellite, 4 Sat IF layers, with terrestrial
- the multiswitch accommodates a maximum of 6 subscriber connections

# Multiple-user operation

For 4, 6 or 8 subscribers,  
cascadable

Can be expanded for additional subscribers  
(Example 32 subscribers)



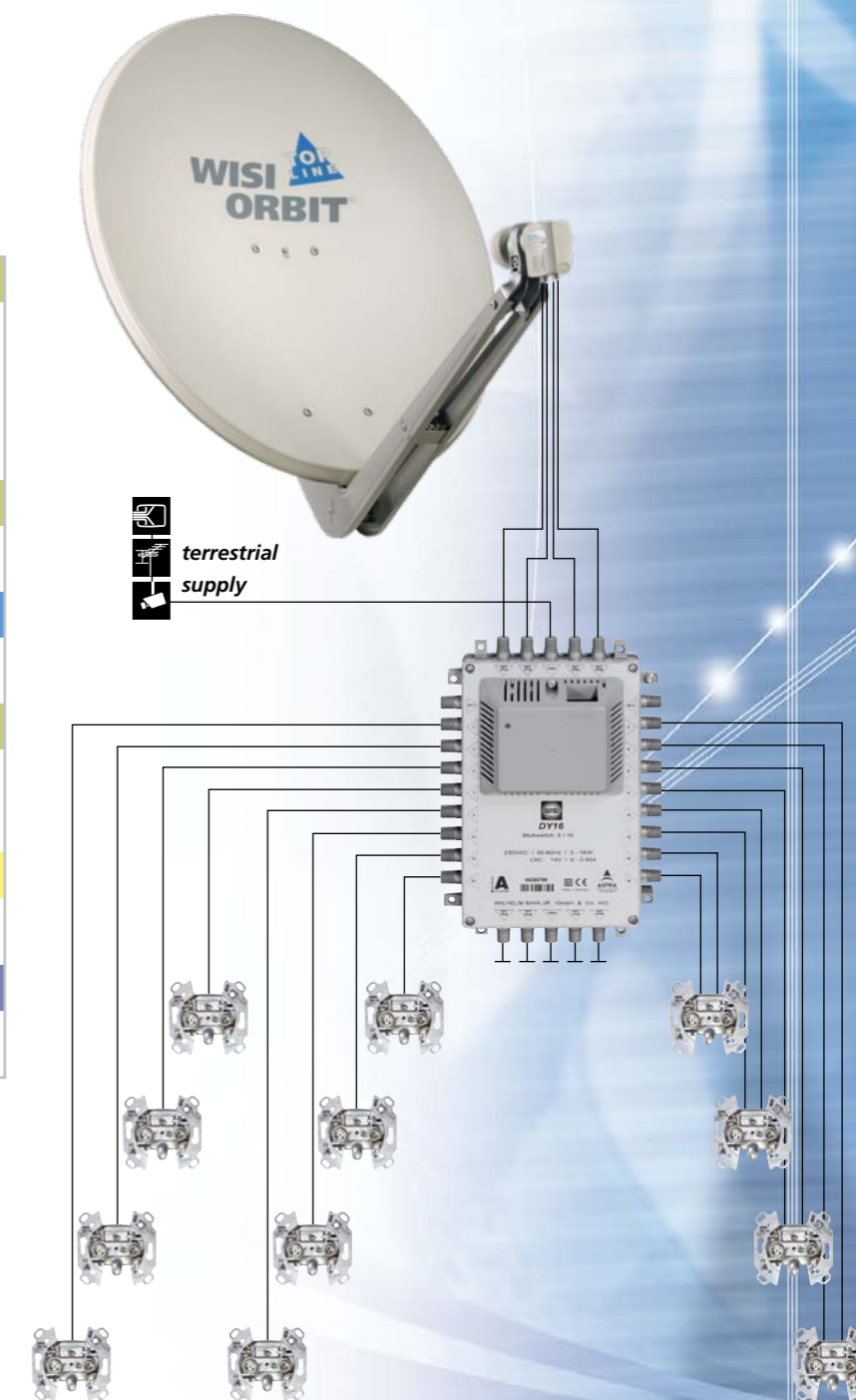
	<b>Offset antennas</b>
	<ul style="list-style-type: none"> <li>· OA 38 G, H or I</li> <li>· OA 85 G, H or I</li> <li>· OA 78, OA 78 B</li> <li>· OA 98, OA 98 B</li> </ul>
	<b>Feed system/LNB</b>
	· OC 04 A
	<b>Cables</b>
	· MK 90 F, MK 95 C, MK 96 F
	<b>Multiswitches</b>
	<ul style="list-style-type: none"> <li>· DY 54 B, DY 56 B, DY 58 B</li> <li>· DY 44 A, DY 46 A, DY 48 A</li> </ul>
	<b>Receivers</b>
	· OR 184, OR 234, OR 285, OR 294, OR 597
	<b>Sockets</b>
	· DB 53, DB 52, DB 03, DB 33

<b>At one glance:</b>
<ul style="list-style-type: none"> <li>• 1 satellite, 4 Sat IF layers, with active terrestrial</li> <li>• 4, 6 or 8 subscriber connections</li> <li>• can be expanded by cascadable multiswitches DY 44 A, DY 46 A, DY 48 A</li> </ul>

# Multiple-user operation

For 12 or 16 subscribers,  
cascadable

Can be expanded for additional subscribers  
(Example 12 subscribers)









	<b>Offset antennas</b>
	<ul style="list-style-type: none"> <li>· OA 38 G, H or I</li> <li>· OA 85 G, H or I</li> <li>· OA 78, OA 78 B</li> <li>· OA 98, OA 98 B</li> </ul>
	<b>Feed system/LNB</b>
	· OC 04 A
	<b>Cables</b>
	· MK 90 F, MK 95 C, MK 96 F
	<b>Multiswitches</b>
	<ul style="list-style-type: none"> <li>· DY 12, DY 16</li> <li>· DY 44 A, DY 46 A, DY 48 A</li> </ul>
	<b>Receivers</b>
	· OR 184, OR 234, OR 285, OR 294, OR 597
	<b>Sockets</b>
	· DB 53, DB 52, DB 03, DB 33

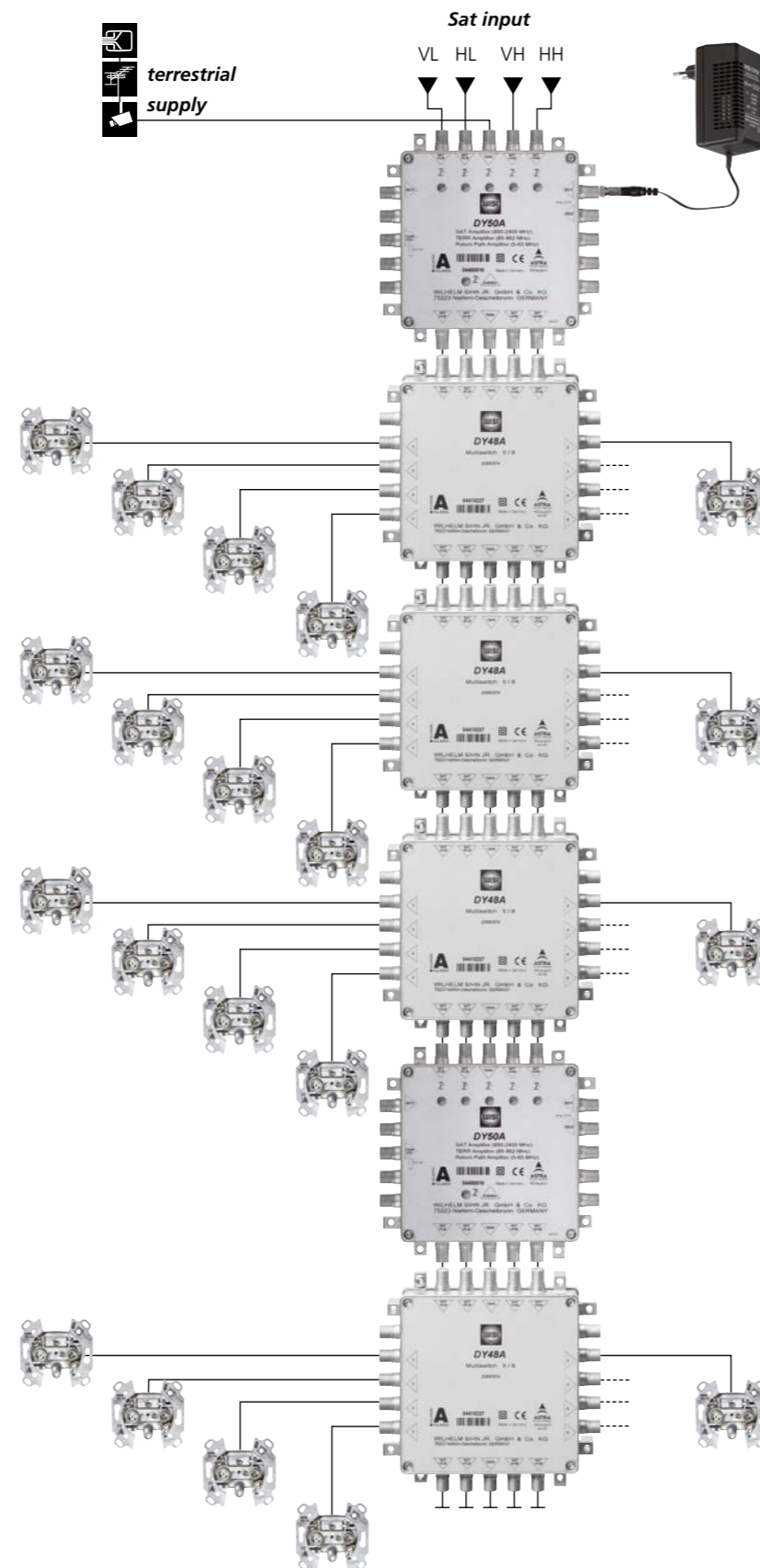
<b>At one glance:</b>
<ul style="list-style-type: none"> <li>• 1 satellite, 4 Sat IF layers, with terrestrial</li> <li>• 12 or 16 subscriber connections</li> <li>• can be expanded by cascadable multiswitches DY 44 A, DY 46 A, DY 48 A</li> </ul>

# Multiple-user operation

For 24 up to 96 subscribers,  
cascadable

Can be expanded for additional subscribers  
(Example 32 subscribers)

 <b>Offset antennas</b>
<ul style="list-style-type: none"> <li>· OA 38 G, H or I</li> <li>· OA 85 G, H or I</li> <li>· OA 78, OA 78 B</li> <li>· OA 98, OA 98 B</li> </ul>
 <b>Feed system/LNB</b>
<ul style="list-style-type: none"> <li>· OC 04 A</li> </ul>
 <b>Cables</b>
<ul style="list-style-type: none"> <li>· MK 90 F, MK 95 C, MK 96 F</li> </ul>
 <b>Multiswitches</b>
<ul style="list-style-type: none"> <li>· DY 44 A, DY 46 A, DY 48 A</li> <li>· DY 50 A (Sat amplifier)</li> <li>· DY 55 (Power supply for current consumption up to 1.6 A)</li> </ul>
 <b>Receivers</b>
<ul style="list-style-type: none"> <li>· OR 184, OR 234, OR 285, OR 294, OR 597</li> </ul>
 <b>Sockets</b>
<ul style="list-style-type: none"> <li>· DB 53, DB 52, DB 03, DB 33</li> </ul>









### At one glance:

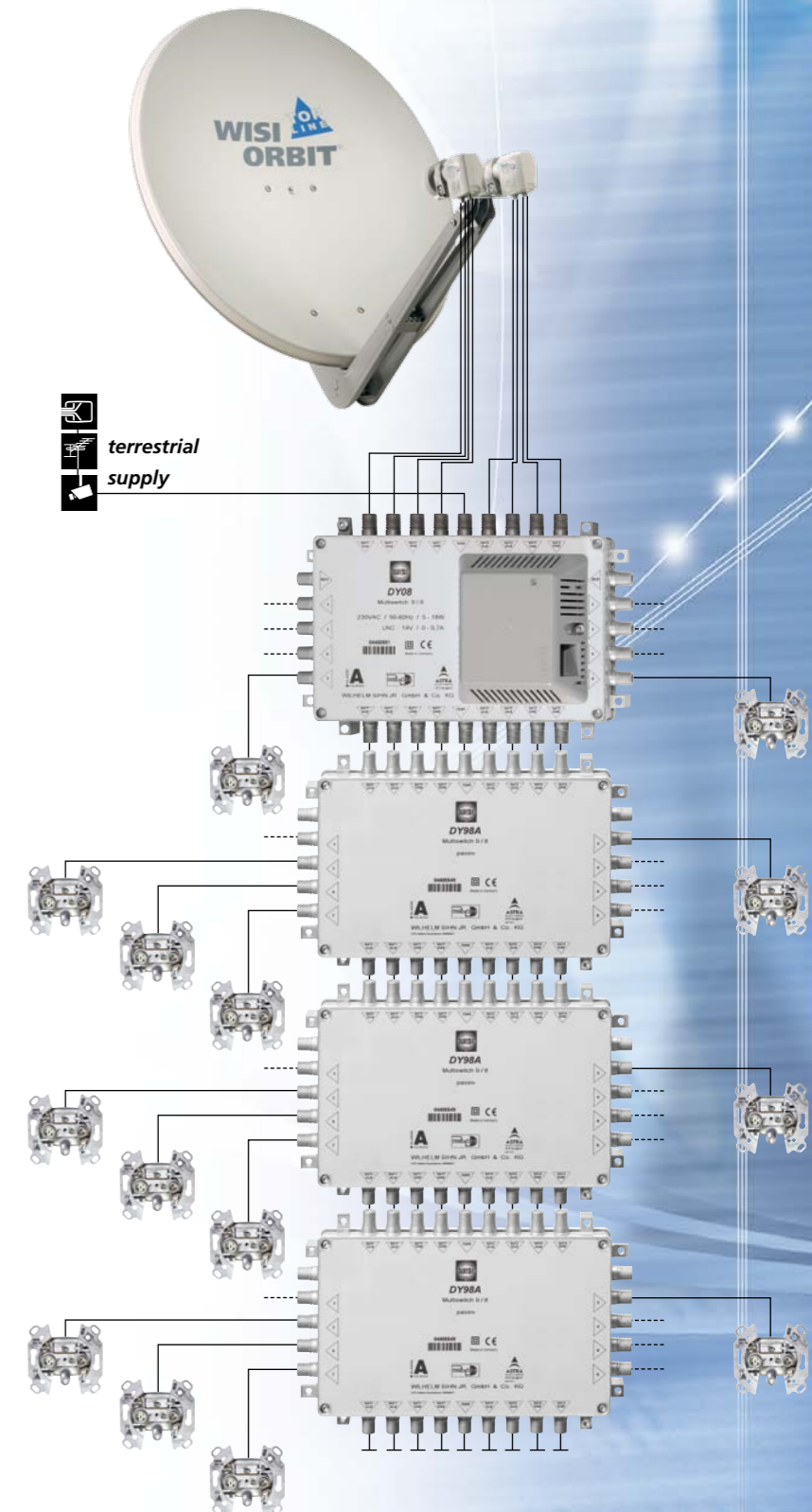
- 1 satellite, 4 Sat IF layers, with terrestrial
- 4, 6 or 8 subscriber connections
- can be expanded by cascadable multiswitches DY 44 A, DY 46 A, DY 48 A

# Multiple-user operation

For 4, 6 or 8 subscribers,  
2 satellites, cascadable

Can be expanded for additional subscribers  
(Example 32 subscribers)

 <b>Offset antennas</b>
<ul style="list-style-type: none"> <li>· OA 38 G, H or I</li> <li>· OA 85 G, H or I</li> <li>· OA 78, OA 78 B</li> <li>· OA 98, OA 98 B</li> </ul>
 <b>Feed system/LNB</b>
<ul style="list-style-type: none"> <li>· OC 04 A</li> </ul>
 <b>Cables</b>
<ul style="list-style-type: none"> <li>· MK 90 F, MK 95 C, MK 96 F</li> </ul>
 <b>Multiswitches</b>
<ul style="list-style-type: none"> <li>· DY 04, DY 06, DY 08</li> <li>· DY 94 A, DY 96 A, DY 98 A</li> </ul>
 <b>Receivers</b>
<ul style="list-style-type: none"> <li>· OR 184, OR 234, OR 285, OR 294, OR 597</li> </ul>
 <b>Sockets</b>
<ul style="list-style-type: none"> <li>· DB 53, DB 52, DB 03, DB 33</li> </ul>









### At one glance:

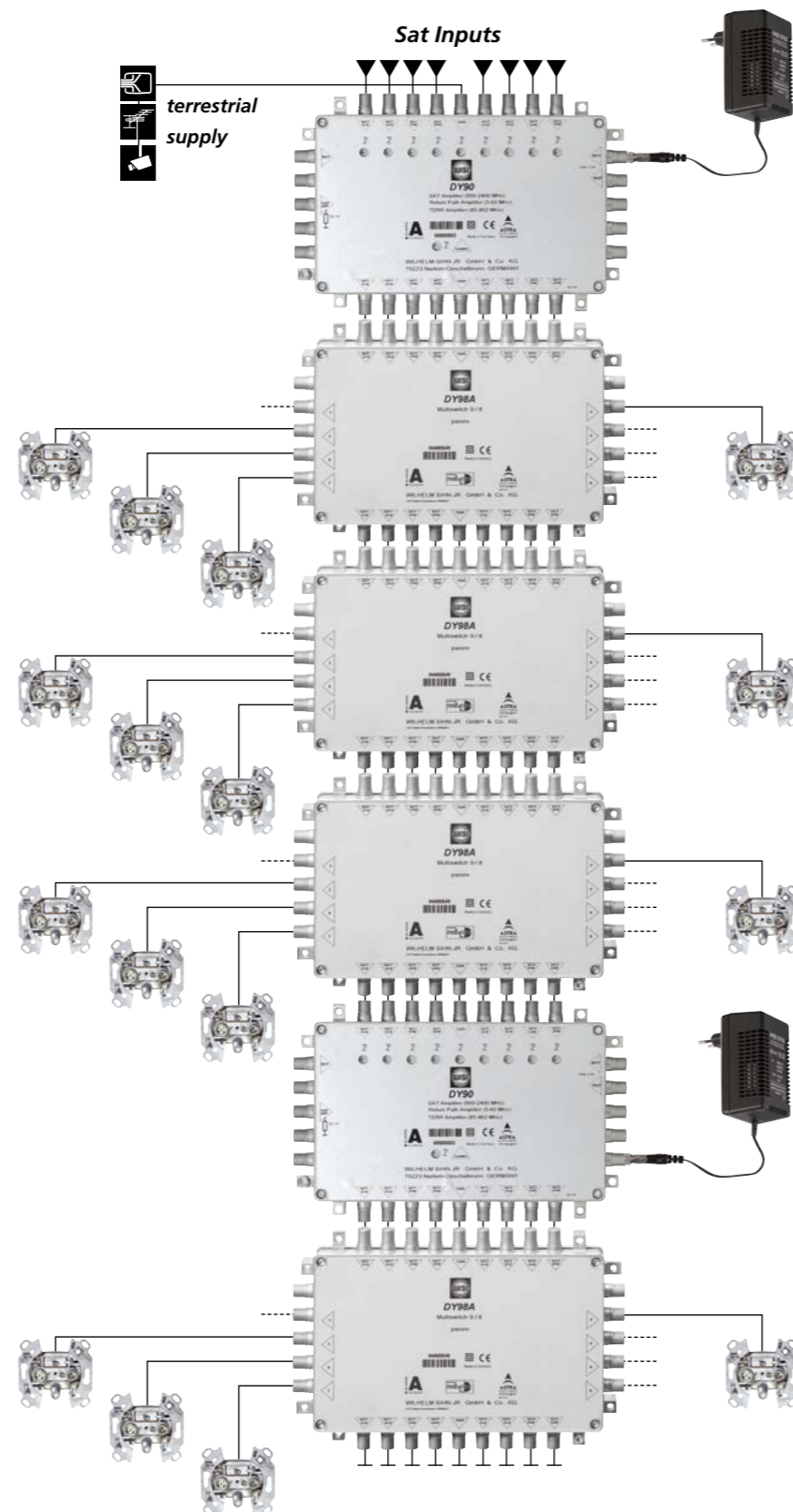
- 2 satellites, 8 Sat IF layers, with terrestrial
- 4, 6 or 8 subscriber connections
- can be expanded by cascadable multiswitches DY 94 A, DY 96 A, DY 98 A

# Multiple-user operation

For 24 up to 96 subscribers,  
2 satellites, cascadable

Can be expanded for additional subscribers  
(Example 32 subscribers)







 <b>Offset antennas</b>
<ul style="list-style-type: none"> <li>· OA 85 G, H or I</li> <li>· OA 78, OA 78 B</li> <li>· OA 98, OA 98 B</li> </ul>
 <b>Feed system/LNB</b>
<ul style="list-style-type: none"> <li>· OC 04 A</li> </ul>
 <b>Cables</b>
<ul style="list-style-type: none"> <li>· MK 90 F, MK 95 C, MK 96 F</li> </ul>
 <b>Multiswitches</b>
<ul style="list-style-type: none"> <li>· DY 04, DY 06, DY 08</li> <li>· DY 94 A, DY 96 A, DY 98 A</li> <li>· DY 90 A (Sat amplifier)</li> <li>· DY 50 (Power supply for current consumption up to 1.6 A)</li> </ul>
 <b>Receivers</b>
<ul style="list-style-type: none"> <li>· OR 184, OR 234, OR 285, OR 294, OR 597</li> </ul>
 <b>Sockets</b>
<ul style="list-style-type: none"> <li>· DB 53, DB 52, DB 03, DB 33</li> </ul>

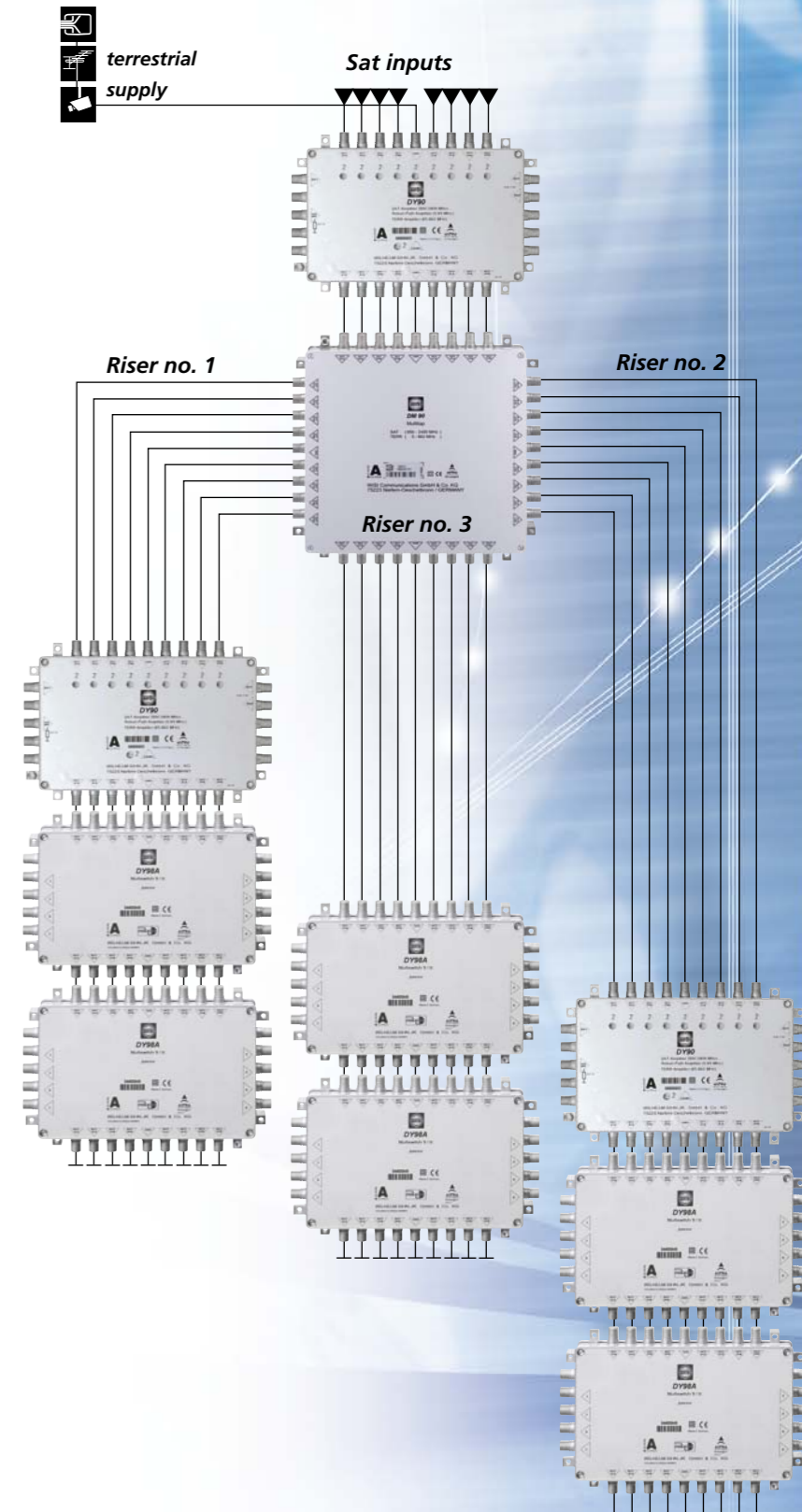


<b>At one glance:</b>
<ul style="list-style-type: none"> <li>• 2 satellites, 8 Sat IF layers, with active terrestrial</li> <li>• 4, 6 or 8 subscriber connections</li> <li>• can be expanded by cascadable multiswitches DY 94 A, DY 96 A, DY 98 A</li> </ul>

# Multiple-user operation

For large dwellings







 <b>Offset antennas</b>
<ul style="list-style-type: none"> <li>· OA 85 G, H or I</li> <li>· OA 78, OA 78 B</li> <li>· OA 98, OA 98 B</li> </ul>
 <b>Feed system/LNB</b>
<ul style="list-style-type: none"> <li>· OC 04 A</li> </ul>
 <b>Cables</b>
<ul style="list-style-type: none"> <li>· MK 90 F, MK 95 C, MK 96 F</li> </ul>
 <b>Multiswitches</b>
<ul style="list-style-type: none"> <li>· DY 90 (Amplifier), DY 94, DY 96, DY 98</li> <li>· DM 90 (SAT splitter)</li> <li>· DY 50 (Min. 1 power supply per trunk)</li> </ul>
 <b>Receivers</b>
<ul style="list-style-type: none"> <li>· OR 184, OR 234, OR 285, OR 294, OR 597</li> </ul>
 <b>Sockets</b>
<ul style="list-style-type: none"> <li>· DB 52, DB 53</li> </ul>

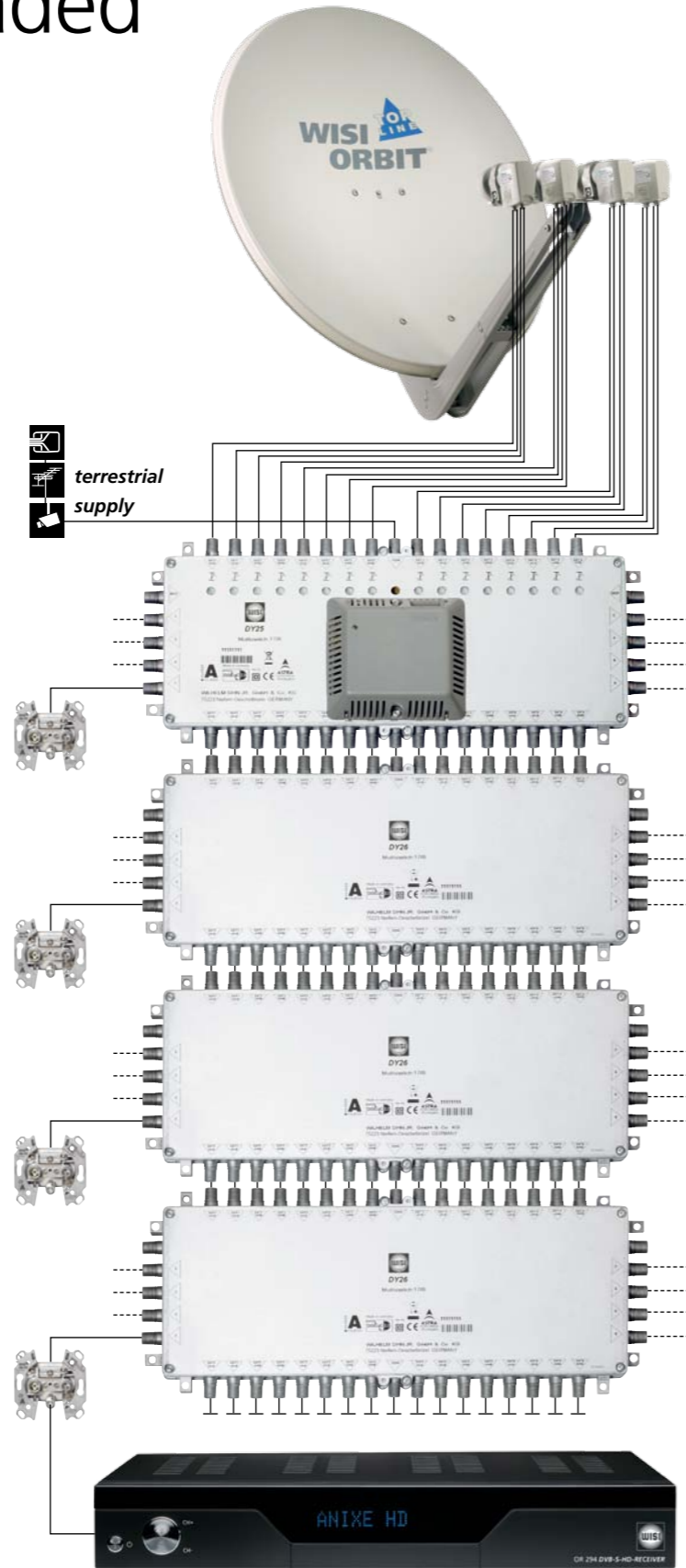


<b>At one glance:</b>
<ul style="list-style-type: none"> <li>• 2 satellites, 8 Sat IF layers, with active terrestrial</li> <li>• can be expanded by cascadable multiswitches DY 94 A, DY 96 A, DY 98 A</li> </ul>

# Multiple-user operation

For up to 32 subscribers,  
4 satellites, cascaded

 <b>Offset antennas</b>
<ul style="list-style-type: none"> <li>· OA 85 G, H or I (with OF 85 0004)</li> <li>· OA 98, OA 98 B (2 x with OF 90)</li> </ul>
 <b>Feed system/LNB</b>
<ul style="list-style-type: none"> <li>· OC 04 A</li> </ul>
 <b>Cables</b>
<ul style="list-style-type: none"> <li>· MK 90 F, MK 95 C, MK 96 F</li> </ul>
 <b>Multiswitches</b>
<ul style="list-style-type: none"> <li>· DY 25, DY 26</li> </ul>
 <b>Receivers</b>
<ul style="list-style-type: none"> <li>· OR 184, OR 234, OR 285, OR 294, OR 597</li> </ul>
 <b>Sockets</b>
<ul style="list-style-type: none"> <li>· DB 53, DB 52, DB 03, DB 33</li> </ul>








**At one glance:**

- 4 satellites, 16 Sat IF layers, with terrestrial
- 8 subscriber connections, can be expanded by cascadable multiswitches up to 32 subscribers

# UNICABLE

For 4 subscribers

 <b>Offset antennas</b>
<ul style="list-style-type: none"> <li>· OA 38 G, H or I</li> <li>· OA 85 G, H or I</li> <li>· OA 78, OA 78 B</li> <li>· OA 98, OA 98 B</li> </ul>
 <b>Feed system/LNB</b>
<ul style="list-style-type: none"> <li>· OC 05 A</li> </ul>
 <b>Cables</b>
<ul style="list-style-type: none"> <li>· MK 90 F, MK 95 C, MK 96 F</li> </ul>
 <b>Receivers</b>
<ul style="list-style-type: none"> <li>· OR 184, OR 234, OR 285, OR 294, OR 597</li> </ul>
 <b>Socket</b>
<ul style="list-style-type: none"> <li>· DB 64</li> </ul>









**At one glance:**

- 1 satellite
- 4 subscribers via one cable
- no new cabling required
- trunk closure with DV 27 resistor

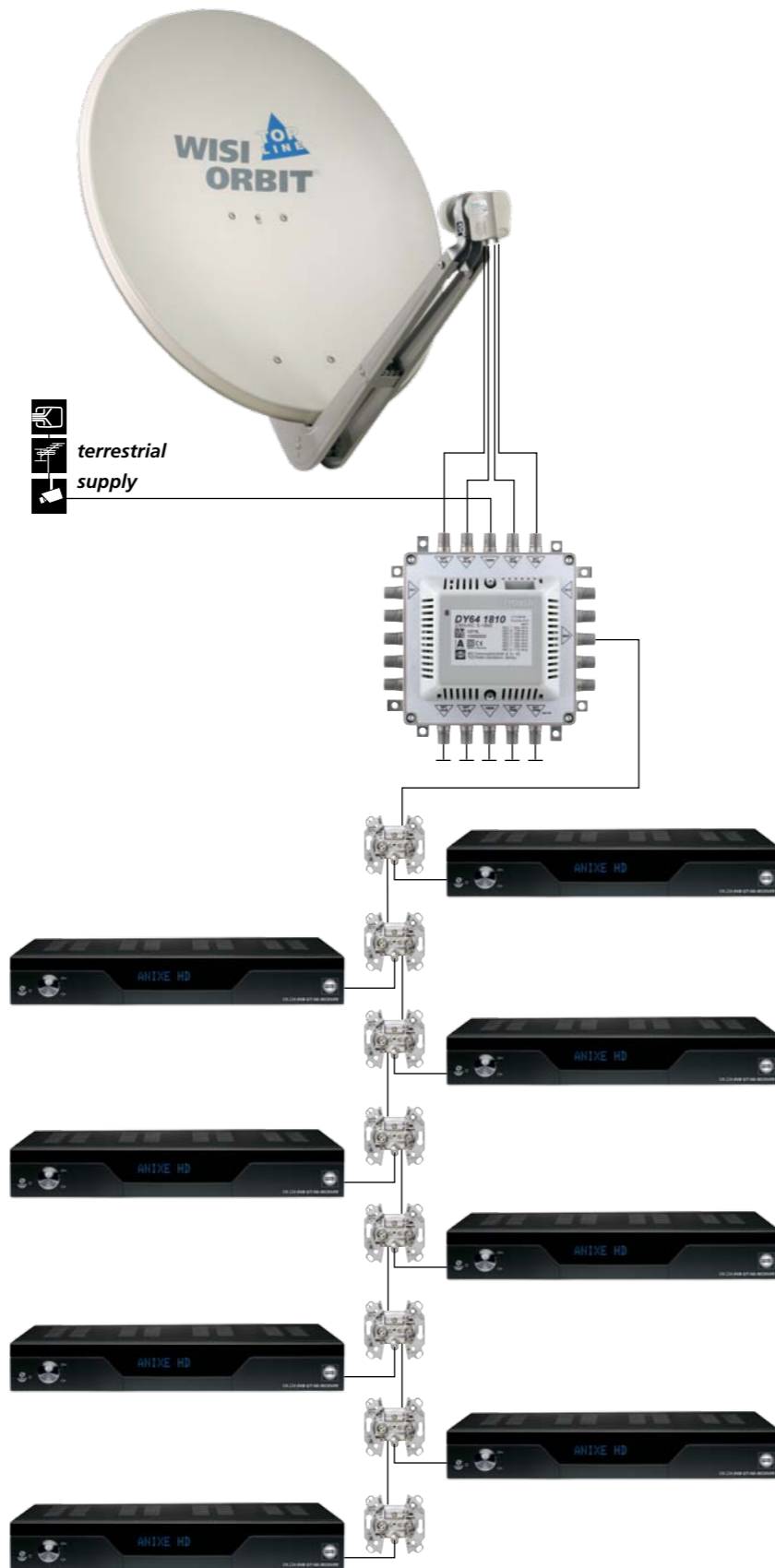
# UNICABLE

## For 8 subscribers

 <b>Offset antennas</b>
· OA 38 G, H or I · OA 85 G, H or I · OA 78, OA 78 B · OA 98, OA 98 B
 <b>Feed system/LNB</b>
· OC 04 A
 <b>Cables</b>
· MK 90 F, MK 95 C, MK 96 F
 <b>Multiswitch</b>
· DY 64 1810
 <b>Receivers</b>
· OR 184, OR 234, OR 285, OR 294, OR 597
 <b>Socket</b>
· DB 64







<b>Frequency assignment</b>								
<b>Receiver</b>	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8
<b>Channel ID</b>	0	1	2	3	4	5	6	7
<b>Frequency (MHz)</b>	1178	1280	1382	1484	1586	1688	1790	1892

- At one glance:**
- 1 satellite, 4 Sat IF layers, with terrestrial
  - can be expanded by cascadable multiswitches DY 44 A, DY 46 A, DY 48 A, DY 54 B, DY 56 B, DY 58 B, DY 12, DY 16
  - trunk closure with DV 27 resistor



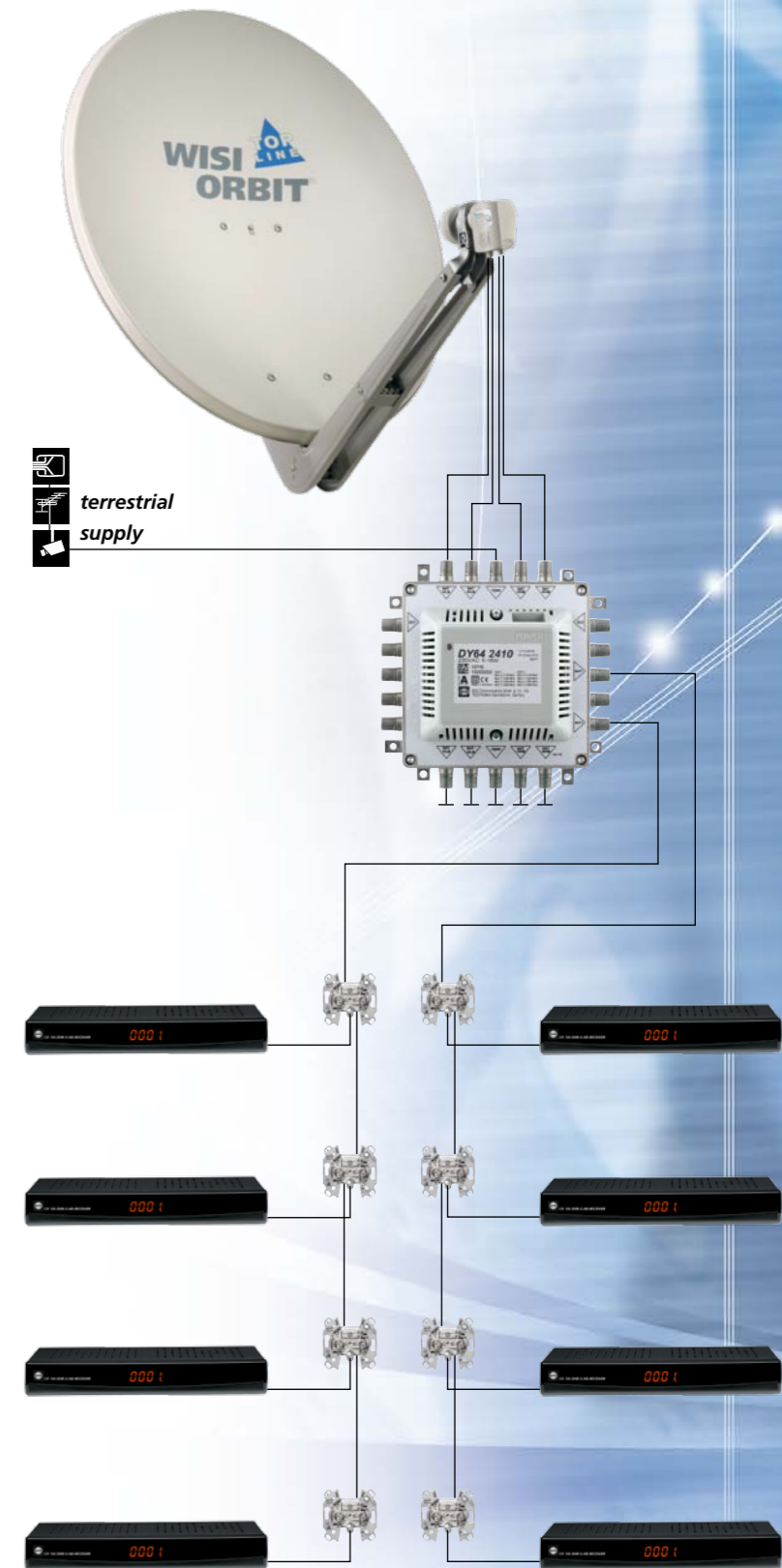
# UNICABLE

## For 2 x 4 subscribers

 <b>Offset antennas</b>
· OA 38 G, H or I · OA 85 G, H or I · OA 78, OA 78 B · OA 98, OA 98 B
 <b>Feed system/LNB</b>
· OC 04 A
 <b>Cables</b>
· MK 90 F, MK 95 C, MK 96 F
 <b>Multiswitch</b>
· DY 64 2410
 <b>Receivers</b>
· OR 184, OR 234, OR 285, OR 294, OR 597
 <b>Socket</b>
· DB 64

<b>Frequency assignment</b>								
	<b>Output 1</b>				<b>Output 2</b>			
<b>Receiver</b>	REC1	REC2	REC3	REC4	REC1	REC2	REC3	REC4
<b>Channel ID</b>	0	1	2	3	0	1	2	3
<b>Frequency (MHz)</b>	1178	1280	1382	1484	1178	1280	1382	1484

- At one glance:**
- 1 satellite, 4 Sat IF layers, with terrestrial
  - can be expanded by cascadable multiswitches DY 44 A, DY 46 A, DY 48 A, DY 54 B, DY 56 B, DY 58 B, DY 12, DY 16
  - trunk closure with DV 27 resistor

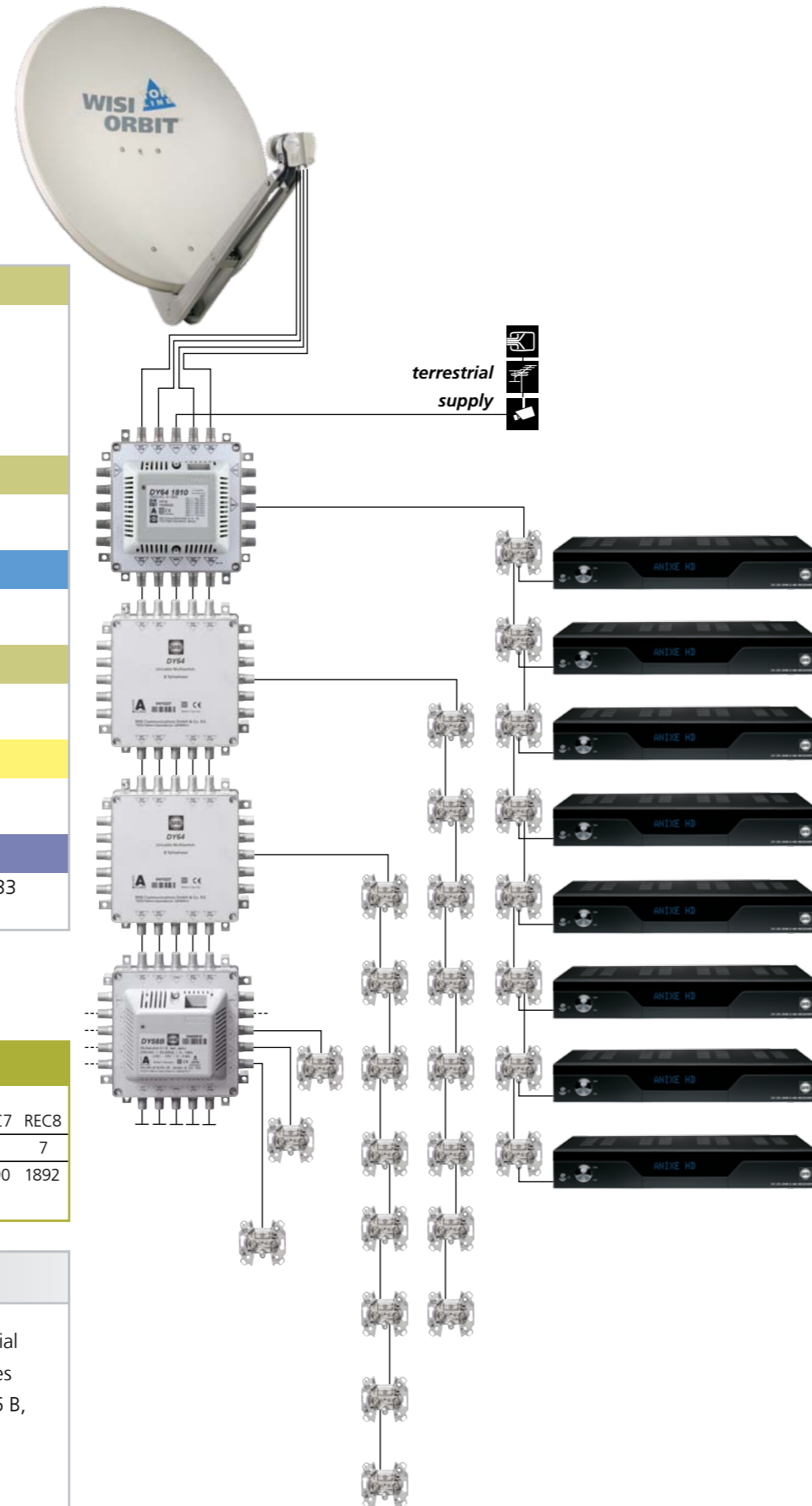




# UNICABLE/*Multiswitch Mix*

## For up to 32 subscribers

(Example 24 subscribers UNICABLE combined with 8 Standard subscribers)



- Offset antennas**
  - OA 38 G, H or I
  - OA 85 G, H or I
  - OA 78, OA 78 B
  - OA 98, OA 98 B
- Feed system/LNB**
  - OC 04 A
- Cables**
  - MK 90 F, MK 95 C, MK 96 F
- Multiswitch**
  - DY 64 1810
- Receivers**
  - OR 184, OR 234, OR 285, OR 294, OR 597
- Sockets**
  - DB 64 UNICABLE, DB 53, DB 52, DB 03, DB 33

**Frequency assignment**

Receiver	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8
Channel ID	0	1	2	3	4	5	6	7
Frequency (MHz)	1178	1280	1382	1484	1586	1688	1790	1892

- At one glance:**
- 1 satellite, 4 Sat IF layers, with active terrestrial
  - can be expanded by cascadable multiswitches DY 44 A, DY 46 A, DY 48 A, DY 54 B, DY 56 B, DY 58 B, DY 12, DY 16
  - UNICABLE-trunk closure with DV 27 resistor

# UNICABLE

## For 8 subscribers and 2 satellites



- Offset antennas**
  - OA 38 G, H or I
  - OA 85 G, H or I
  - OA 78, OA 78 B
  - OA 98, OA 98 B
- Feed system/LNB**
  - OC 04 A
- Cables**
  - MK 90 F, MK 95 C, MK 96 F
- Multiswitch**
  - DY 68 1810
- Receivers**
  - OR 184, OR 234, OR 285, OR 294, OR 597
- Socket**
  - DB 64







**Frequency assignment**

Receiver	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8
Channel ID	0	1	2	3	4	5	6	7
Frequency (MHz)	1178	1280	1382	1484	1586	1688	1790	1892

- At one glance:**
- 2 satellites, 8 Sat IF layers, with active terrestrial
  - can be expanded by cascadable multiswitches DY 94 A, DY 96 A, DY 98 A, DY 04, DY 06, DY 08
  - trunk closure with DV 27 resistor

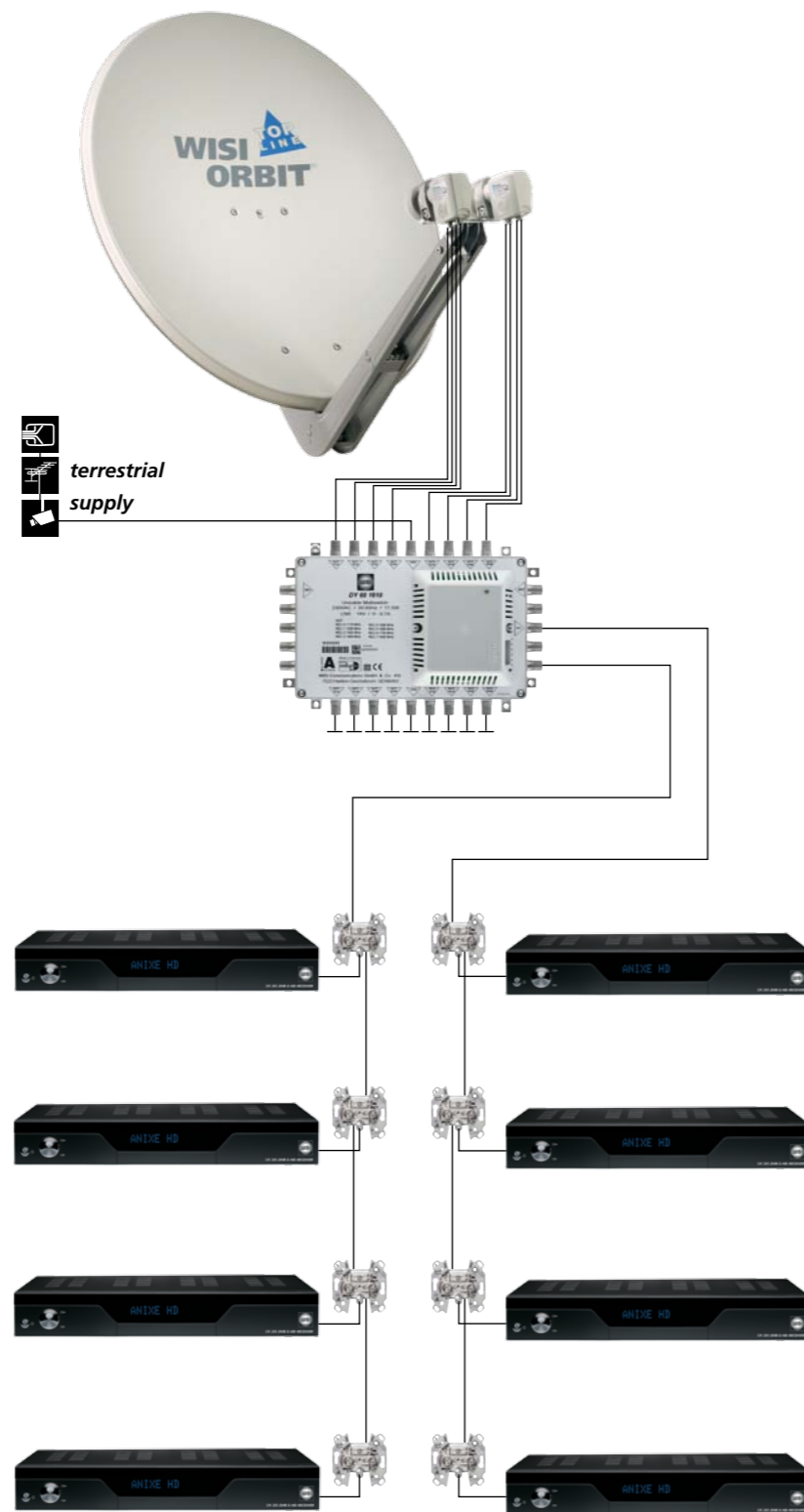
# UNICABLE

## For 2 x 4 subscribers and 2 satellites

 <b>Offset antennas</b>
<ul style="list-style-type: none"> <li>· OA 38 G, H or I</li> <li>· OA 85 G, H or I</li> <li>· OA 78, OA 78 B</li> <li>· OA 98, OA 98 B</li> </ul>
 <b>Feed system/LNB</b>
· OC 04 A
 <b>Cables</b>
· MK 90 F, MK 95 C, MK 96 F
 <b>Multiswitch</b>
· DY 68 2410
 <b>Receivers</b>
· OR 184, OR 234, OR 285, OR 294, OR 597
 <b>Socket</b>
· DB 64

Frequency assignment								
Receiver	Output 1				Output 2			
	REC1	REC2	REC3	REC4	REC1	REC2	REC3	REC4
Channel ID	0	1	2	3	0	1	2	3
Frequency (MHz)	1178	1280	1382	1484	1178	1280	1382	1484




<b>At one glance:</b>
<ul style="list-style-type: none"> <li>• 2 satellites, 8 Sat IF layers, with active terrestrial</li> <li>• can be expanded by cascable multiswitches DY 94 A, DY 96 A, DY 98 A, DY 04, DY 06, DY 08</li> </ul>

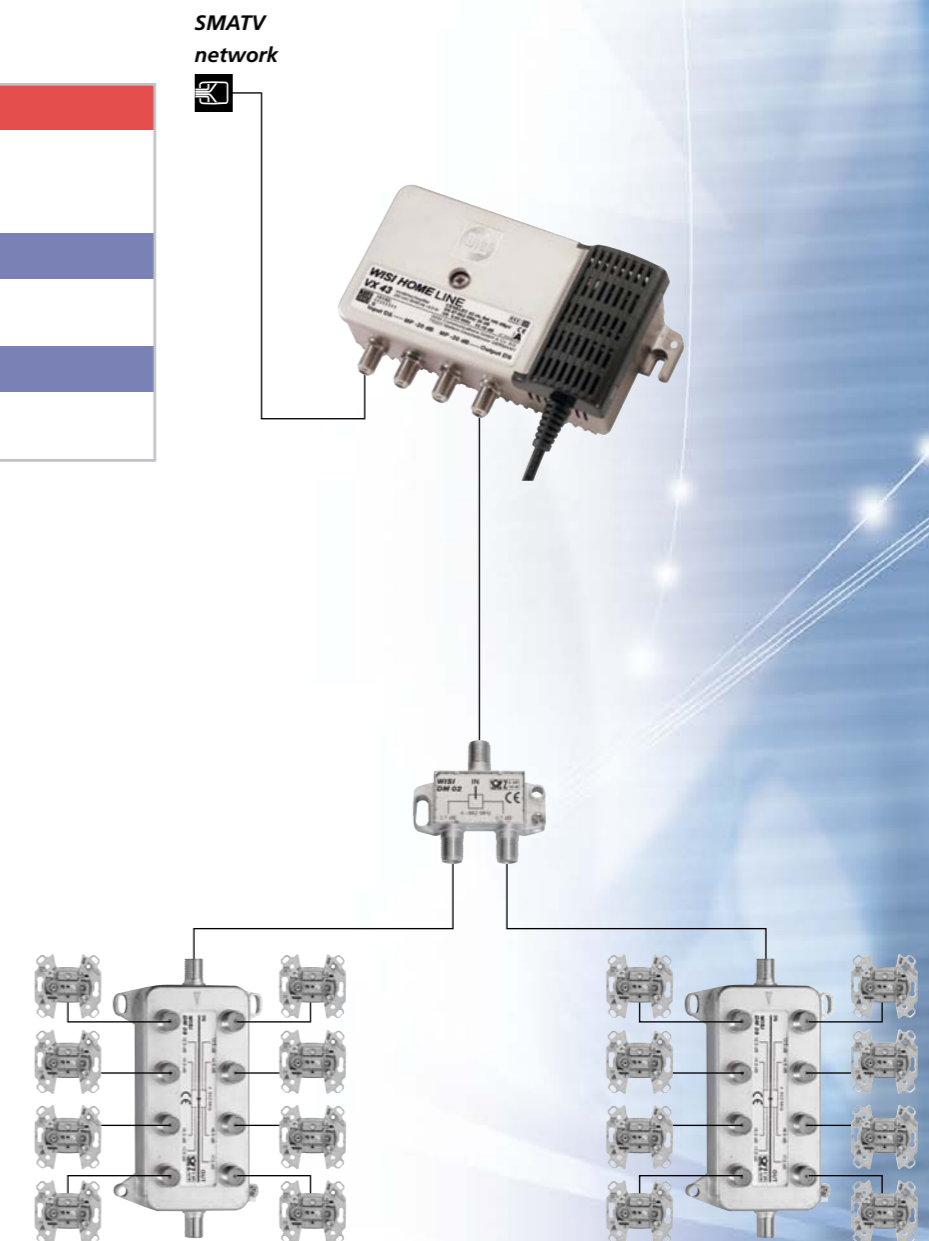


# Building distribution cable TV

## Star distribution

(Example 16 subscriber connections)

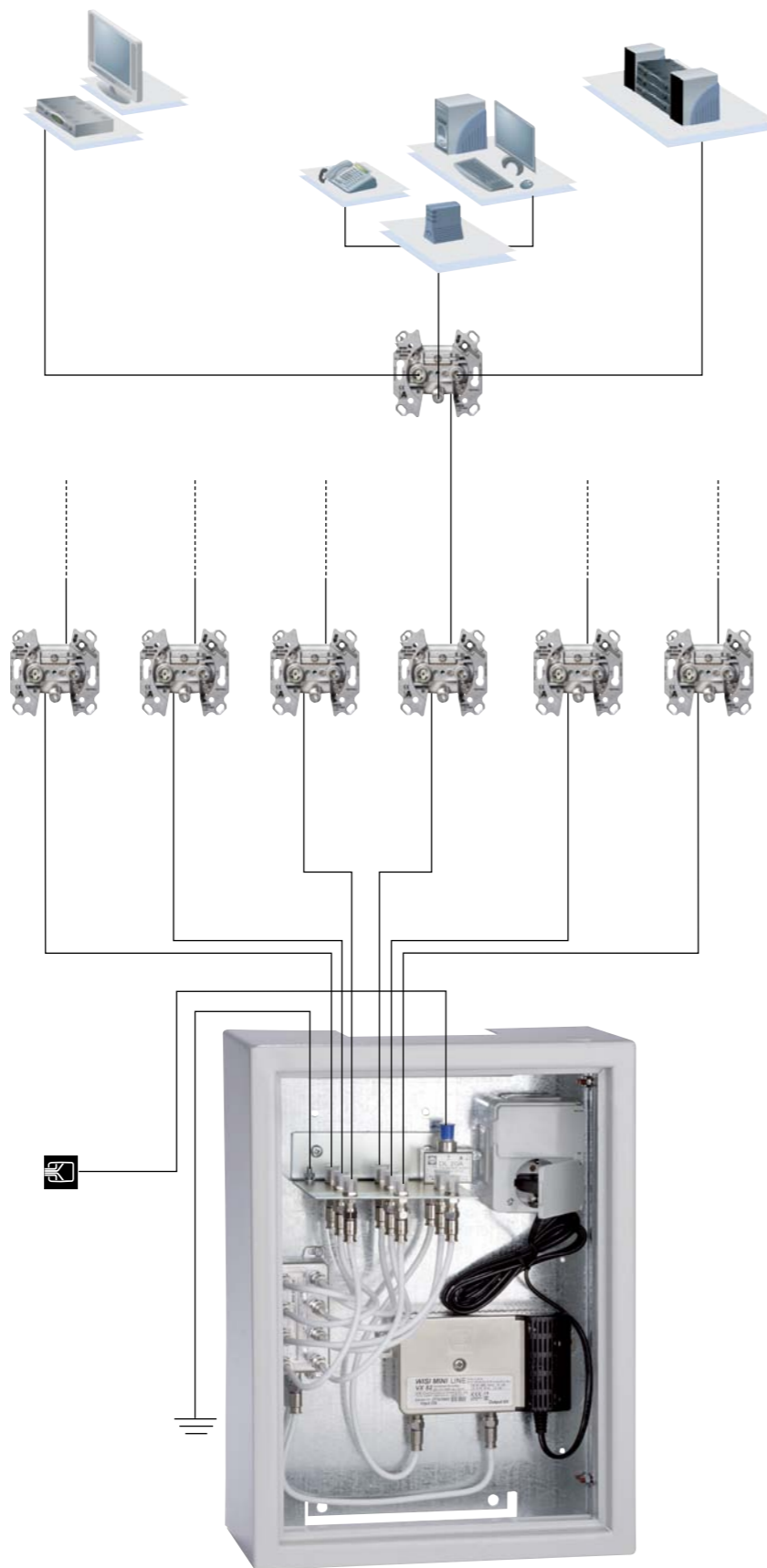
 <b>Amplifiers</b>
<ul style="list-style-type: none"> <li>· VX 43 B, VX 44 B, VX 45 B, VX 46 A</li> <li>· VX 81, VX 82, VX 86, VX 87</li> </ul>
 <b>Tap off, Splitter</b>
· DM 38, DM 02
 <b>Cables</b>
· DB 17, DD 04 M 0650






<b>At one glance:</b>
<ul style="list-style-type: none"> <li>• star distribution is always preferable to the tree structure</li> <li>• downstream 88–862 MHz</li> <li>• returnpath 5–65 MHz</li> </ul>

# Pre-installed cabinets

For up to 24 outlets in cable TV

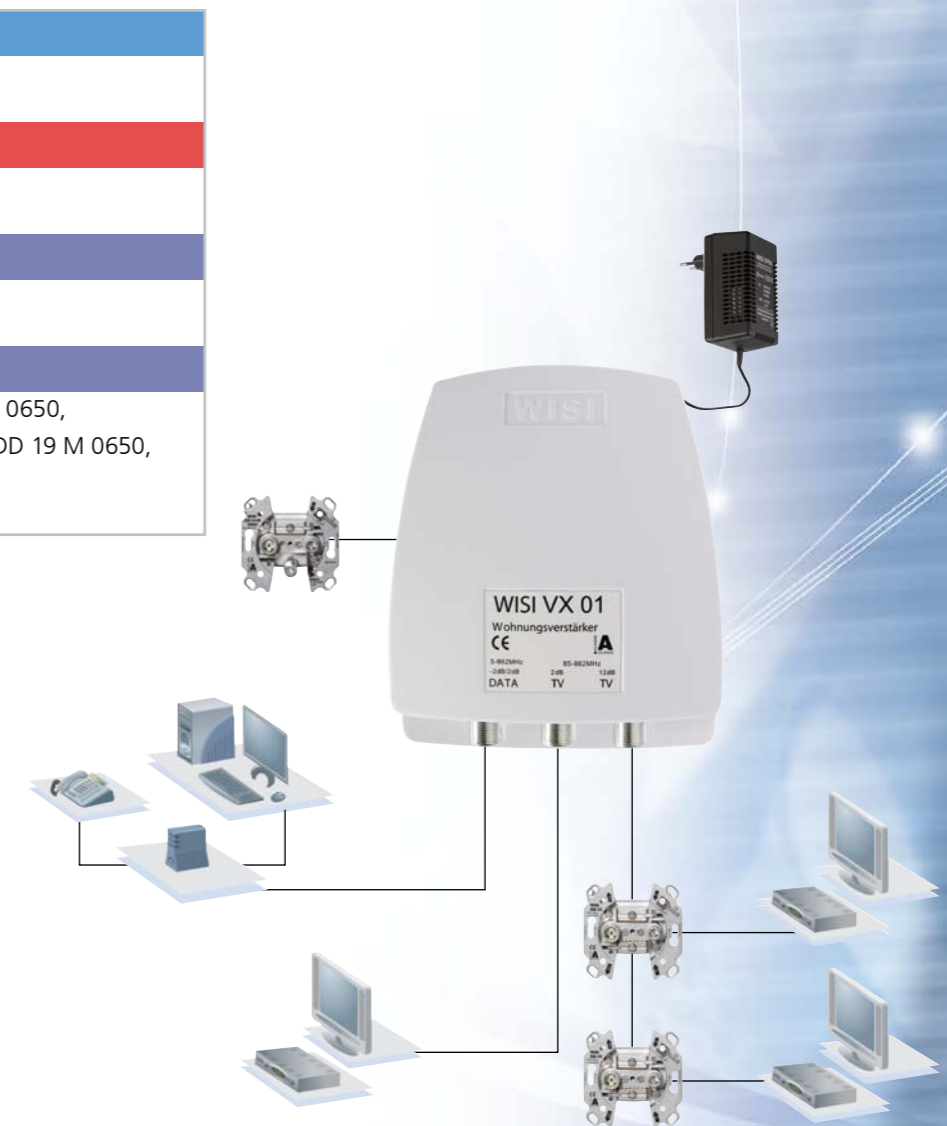






 <b>Cables</b>
· MK 90 F, MK 95 C, MK 96 F
 <b>Pre-installed cabinets</b>
· BV ...
 <b>Sockets</b>
· DD 09 M 0650, DD 11 M 0650, DD 15 M 0650, DD 19 M 0650, DD 23 M 0650

<b>At one glance:</b>
<ul style="list-style-type: none"> <li>• available with tap-off or distributor</li> <li>• multimedia, triple-play capable</li> <li>• incl. return path 65 MHz</li> <li>• galvanic block</li> <li>• lock with KABEL-BW, KDG, ISH/ISEY or universal closing</li> <li>• downstream 88–862 MHz</li> </ul>

# Residential booster

For expanding the multimedia distribution structure within the dwelling for cable TV










 <b>Cables</b>
· MK 90 F, MK 95 C, MK 96 F
 <b>Amplifier</b>
· VX 01
 <b>Terminating resistor</b>
· DV 23
 <b>Sockets</b>
· DB 05, DD 04 M 0650, DD 09 M 0650, DD 11 M 0650, DD 15 M 0650, DD 19 M 0650, DD 23 M 0650

<b>At one glance:</b>
<ul style="list-style-type: none"> <li>• multimedia, triple-play capable</li> <li>• incl. return path 65 MHz</li> <li>• KABEL-BW, KDG and ISH/ISEY certified</li> <li>• for individual use</li> <li>• downstream 88–862 MHz</li> </ul>






# Connectors

## Product overview


















### F-type connectors crimp

	<b>DV 80 F-type connector</b> · for MK 75
	<b>DV 85 F-type connector</b> · for MK 90/95/96
	<b>DV 90 F-type-Quick connector</b> · for MK 75
	<b>DV 95 F-type-Quick connector</b> · for MK 90/95/96
	<b>DV 97 F-type Quick elbow, compression</b> · for MK 90/95/96
	<b>DV 99 Tool for F-type mounting</b> · for F-type connector
	<b>DZ 85 Crimping tool</b>

### IEC-Accessories

	<b>DV 01 0397 Coaxial plug (male)</b>
	<b>DV 07 0397 Coaxial plug (female)</b>
	<b>DV 82 0397 Coaxial elbow socket (female)</b>
	<b>DV 60 0397 Coaxial elbow connector (male)</b>
	<b>DV 75 Terminal resistor</b>

### F-type Accessories

	<b>DV 10 F-type compression connector</b> · for MK 75
	<b>DV 14 F-type compression connector</b> · for MK 15
	<b>DV 15 F-type compression connector</b> · for MK 90/95/96
	<b>DV 24 F-type terminating resistor</b>
	<b>DV 25 F-type terminating resistor</b> · with DC-isolation
	<b>DV 45 F Twin coupler 180°</b>
	<b>DV 46 F-type/F-splice</b>
	<b>DV 49 F-type adapter F-Fix / F-Quick</b>
	<b>DV 50 F-type connector twist on</b> · for MK 75
	<b>DV 52 F-type adapter</b>
	<b>DV 53 F-type elbow adapter</b>
	<b>DV 54 F-type connector, twist on</b> · for MK 11/15
	<b>DV 55 F-type connector, twist on</b> · for MK 90/95/96
	<b>DZ 01 F-type connector</b>
	<b>DZ 14 Compressing tool for F</b>
	<b>DZ 15 Compressing tool for F</b>
	<b>MZ 01 Coaxial cable stripper</b>

# Notes

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