

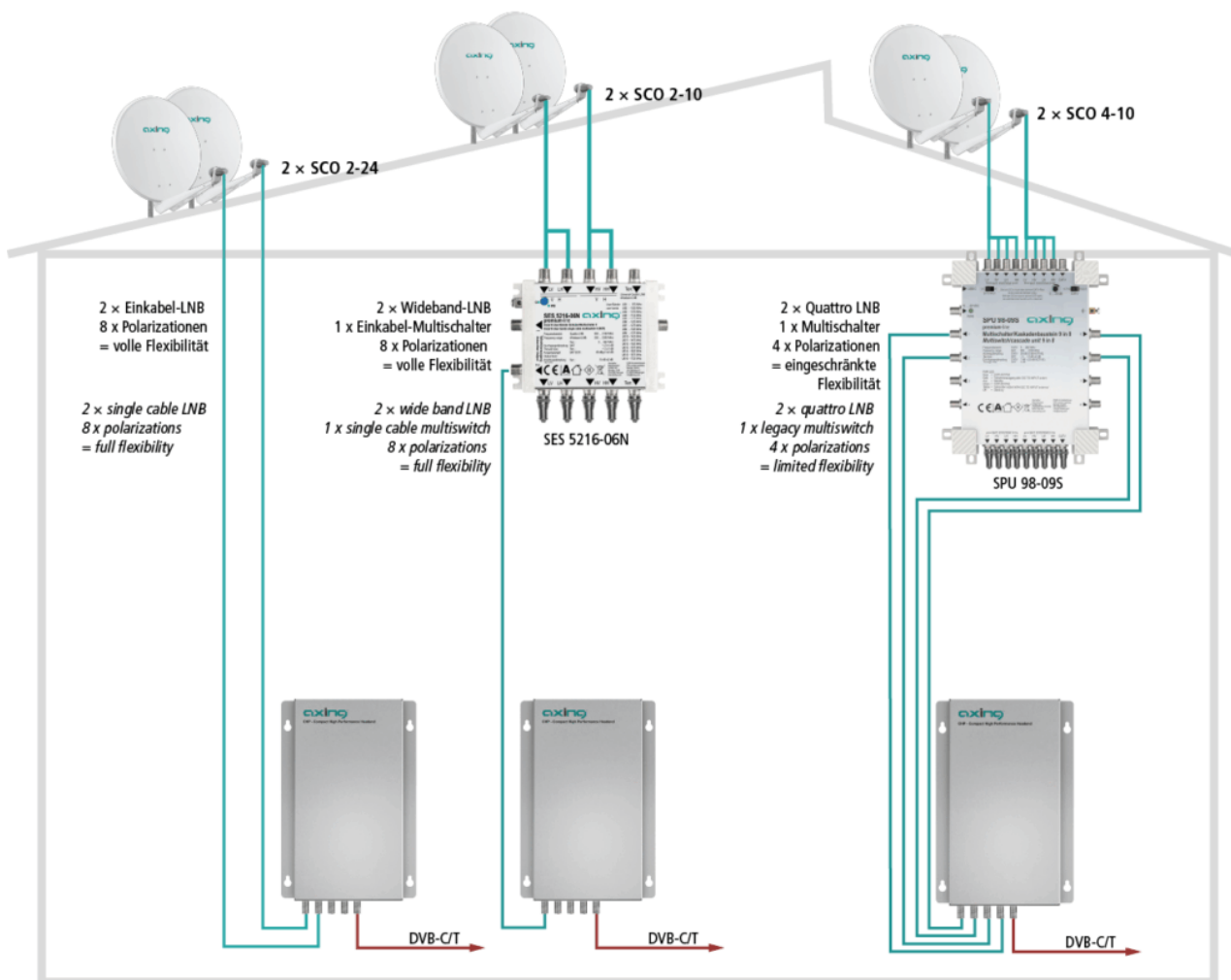


How to feed AXING Headends via Single-Cable Systems

AXING Application Note

AXING headends support the reception of satellite signals via single-cable distribution systems (UNICABLE I and UNICABLE II (JESS) according to EN50494 / EN50607). This allows a headend to be supplied via a single coaxial cable. The use of single-cable technology significantly reduces cabling efforts. Depending on the installation, the headend can receive satellite signals in various ways:

- Direct connection to a [single-cable LNB](#)
- Connection via a [single-cable multiswitch](#)
- Connection to a conventional satellite system with a quattro or quad LNB or [multiswitch](#)



All current AXING headends support single-cable reception. The new MK-C and MK-N headend series particularly benefit from this. They have four SAT inputs and a built-in switching matrix. In combination with a single-cable system, the headend can be supplied with all available SAT transponders via a single coaxial cable. This enables flexible system planning and reduces installation effort.

Configuration of single-cable reception



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The satellite reception parameters are configured in the **INITIALISATION** menu of the headend user interface. The settings for the single-cable system are made in PHASE 1 – Tuner Configuration. After entering the standard transponder parameters (e.g. frequency and polarisation), only a few additional settings are required. The figure below shows an example configuration.

- Select Unicable II as the reception mode
- Select SAT system
- Select Unicable User Band (UB)
- Enter UB frequency according to the frequency list of the used LNB or multiswitch
- Enter desired transponder parameters such as frequency and polarisation

Installation notes

- Each SAT tuner must be assigned its own User Band (UB).
- The configured UB frequency must match exactly the LNB or multiswitch used.
- EN50607 (UNICABLE II) supports up to 32 User Bands

User Band frequency list

UB	UB Frequency	Used in LNB	Used in multiswitch
UB 1	975 MHz	SCO 2-24	SES 5216-06N
UB 2	1025 MHz	SCO 2-24	SES 5216-06N
UB 3	1075 MHz	SCO 2-24	SES 5216-06N
UB 4	1125 MHz	SCO 2-24	SES 5216-06N
UB 5	1175 MHz	SCO 2-24	SES 5216-06N
UB 6	1225 MHz	SCO 2-24	SES 5216-06N
UB 7	1275 MHz	SCO 2-24	SES 5216-06N
UB 8	1325 MHz	SCO 2-24	SES 5216-06N
UB 9	1375 MHz	SCO 2-24	SES 5216-06N
UB 10	1425 MHz	SCO 2-24	SES 5216-06N
UB 11	1475 MHz	SCO 2-24	SES 5216-06N
UB 12	1525 MHz	SCO 2-24	SES 5216-06N
UB 13	1575 MHz	SCO 2-24	SES 5216-06N
UB 14	1625 MHz	SCO 2-24	SES 5216-06N

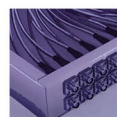




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UB 15 1675 MHz	SCO 2-24	SES 5216-06N
UB 16 1725 MHz	SCO 2-24	SES 5216-06N
UB 17 1775 MHz	SCO 2-24	
UB 18 1825 MHz	SCO 2-24	
UB 19 1875 MHz	SCO 2-24	
UB 20 1925 MHz	SCO 2-24	
UB 21 1975 MHz	SCO 2-24	
UB 22 2025 MHz	SCO 2-24	
UB 23 2075 MHz	SCO 2-24	
UB 24 2125 MHz	SCO 2-24	

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