



MULTISWITCH 5-CABLE SYSTEM



Stand alone switch with power supply

- For selection of 4 satellite polarities
- Input for terrestrial signals
- Switching mode 13/18 V, 0/22 kHz
- For distribution of analogue and digital signals
- Active switch with low tap loss
- Connectors: F female
- Metal housing with plastic side brackets
- Wide product range with models for 4, 6, 8, 12, 16, 24, 32 and 48 subscribers

| Type | MS 54 N | | MS 56 N | | MS 58 N | | MS 5012 N | |
|----------------------------|------------------------|-------------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Article No. | 1016 1501 | | 1016 1502 | | 1016 1503 | | 1016 1504 | |
| Frequency range | MHz | 47-862 | 950-2200 | 47-862 | 950-2200 | 47-862 | 950-2200 | 47-862 |
| Inputs | | 1 | 4 | 1 | 4 | 1 | 4 | 1 |
| Outputs subscribers | | 4 | | 6 | | 8 | | 12 |
| Gain | dB | 0 ... 4 | -2 ... -4 | 0 ... 4 | -4 ... -6 | 0 ... 3 | -4 ... -6 | 0 ... 4 |
| Isolation: | SAT/SAT | dB | > 25 | | > 25 | | > 25 | > 25 |
| | SAT/TER | dB | > 25 | | > 23 | | > 23 | > 25 |
| | Subscriber | dB | > 23 | > 28 | > 23 | > 28 | > 28 | > 28 |
| Output level: | 35 dB IMA ₃ | dB _p V | | 103 | | 103 | | 103 |
| | 60 dB IMA ₃ | dB _p V | 96 | | 92 | | 90 | |
| Operating volatage | V~ | 230 | | 230 | | 230 | | 230 |
| Remote feeding LNB | mA | max. 350 | | max. 350 | | max. 350 | | max. 350 |
| Power consumption | | | | | | | | |
| without LNB remote feeding | W | 4,1 | | 4,5 | | 5,0 | | 4,5 |
| Dimensions | mm | 230 x 120 x 60 | | 345 x 120 x 80 | | 345 x 120 x 80 | | 440 x 120 x 80 |
| Weight | kg | 1,0 | | 1,3 | | 1,3 | | 1,3 |

| Type | MS 5016 N | | MS 5024 N | | MS 5032 N | | MS 5048 N | |
|----------------------------|------------------------|-------------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Article No. | 1016 1505 | | 5700 1228 | | 5700 1444 | | 5700 1435 | |
| Frequency range | MHz | 47-862 | 950-2200 | 47-862 | 950-2200 | 47-862 | 950-2200 | 47-862 |
| Inputs | | 1 | 4 | 1 | 4 | 1 | 4 | 1 |
| Outputs subscribers | | 16 | | 24 | | 32 | | 48 |
| Gain | dB | 0 ... 4 | 0 ... -3 | 0 ... 3 | -4 ... -6 | 0 ... 3 | 0 ... 6 | 0 ... 3 |
| Isolation: | SAT/SAT | dB | > 25 | | > 25 | | > 25 | > 25 |
| | SAT/TER | dB | > 26 | | > 23 | | > 23 | > 25 |
| | Subscriber | dB | > 28 | > 28 | > 28 | > 28 | > 28 | > 28 |
| Output level: | 35 dB IMA ₃ | dB _p V | | 98 | | 94 | | 100 |
| | 60 dB IMA ₃ | dB _p V | 88 | | 86 | | 88 | |
| Operating volatage | V~ | 230 | | 230 | | 185 - 265 | | 185 - 265 |
| Remote feeding LNB | mA | max. 350 | | max. 350 | | max. 500 | | max. 500 |
| Power consumption | | | | | | | | |
| without LNB remote feeding | W | 5,0 | | 7,5 | | 8,5 | | 9,5 |
| Dimensions | mm | 530 x 120 x 80 | | 440 x 120 x 80 | | 384 x 120 x 71 | | 484 x 120 x 71 |
| Weight | kg | 1,3 | | 1,3 | | 1,3 | | 1,3 |



AMPLIFIER 5-CABLE SYSTEM



- For analogue and digital signals
- Return path compatible

■ **NVS 510:** Head- or backbone line amplifier for 5-cable systems

- **SV 435:** Head amplifier for 4-cable systems
- High gain 31 ... 38 dB, high output level
- Attenuator, 22 kHz generator

- **SV 528:** Head amplifier for 5-cable systems
- Terrestrial active/passive switchable
- Attenuator, 22 kHz generator

| Type | NVS 510 | | | SV 435 | | | SV 528 | | |
|---|----------------------------|--|----------|----------------|---|---|----------------|------------|------------|
| Article No. | 1016 1200 | | | 1016 1621 | | | 1016 1201 | | |
| Description | head or backbone amplifier | | | head amplifier | | | head amplifier | | |
| Frequency range | MHz | 5 - 30 | 47 - 862 | 950 - 2200 | 950 - 2200 | 950 - 2200 | 5 - 30 | 47 - 862 | 950 - 2200 |
| Inputs | | 1 | | 4 | 4 | | 1 | | 4 |
| Outputs | | | 5 | | 4 | | | 5 | |
| Gain: active-mode | dB | -1 ... -3 | 7 ... 10 | 7 ... 12 | 31 ... 38 | -1 ... -3 | 26 ... 28 | 21 ... 28 | |
| passive-mode | dB | - | - | - | - | -1 ... -3 | -1 ... -3 | 21 ... 28 | |
| Attenuator | dB | - | - | - | 4 x 0...15 | 1 x 0...15 | 1 x 0...15 | 4 x 0...15 | |
| Noise figure | dB | - | 5 | 9 | 9 | - | 8 | | |
| Output level | | | | | | | | | 9 |
| SAT 35 dB IMA ₃ | dBµV | | | 112 | 121 | | | | 116 |
| TERR 60 dB IMA ₃ /IMA ₂ | dBµV | 112 / 95 | | | - | 114 / 95 | | | |
| Isolation inputs | dB | > 25 | | | > 25 | > 25 | | | |
| 22 kHz tone | | - | | | selectable | selectable | | | |
| Operating voltage | | connector 3,5mm for external power supply (NG 1880) max. 800 mA | | | 185 - 265 V~ | 185 - 265 V~ | | | |
| Remote feeding LNB | | 13/18 VDC 300 mA, selectable | | | 13/18 VDC 400 mA, selectable | 13/18 VDC 500 mA, selectable | | | |
| | | 12 VDC, 250 mA at output for remote feeding of cascade devices | | | 12 VDC, 350 mA at output for remote feeding of cascade devices | 12 VDC, 450 mA at output for remote feeding of cascade devices | | | |
| Power consumption | | | | | | | | | |
| without LNB remote feeding | | < 200 mA | | | 13,7 W | 11,7 W | | | |
| Connectors | | F female | | | F female | F female | | | |
| Dimensions | mm | 125 x 90 x 35 | | | 210 x 125 x 73 | 210 x 125 x 73 | | | |
| Weight | kg | 0,3 | | | 1,2 | 1,2 | | | |



MULTISWITCH 9-CABLE SYSTEM

Stand alone switch with power supply

- For selection of 8 satellite polarities
- Input for terrestrial signals
- Switching mode 13/18 V, 0/22 kHz, DISEqC-signals
- For distribution of analogue and digital signals
- Active switch with low tap loss
- Connectors F female
- Metal housing with plastic side brackets
- Wide product range with models for 4, 6, 8, 12, and 16 subscribers



| Type | MS 94 N | | MS 96 N | | MS 98 N | |
|----------------------------|------------------------|-------------------|-----------|----------------|-----------|----------------|
| Article No. | 1016 1506 | | 1016 1507 | | 1016 1508 | |
| Frequency range | MHz | 47-862 | 950-2200 | 47-862 | 950-2200 | 47-862 |
| Inputs | | 1 | 8 | 1 | 8 | 1 |
| Outputs subscriber | | 4 | | 6 | | 8 |
| Gain | dB | 1 ... 3 | 0 ... 2 | 1 ... 3 | 0 ... 2 | 1 ... 3 |
| Isolation: | SAT/SAT | | > 28 | | > 28 | |
| | SAT/TER | | > 28 | | > 28 | |
| | Subscriber | dB | > 26 | > 33 | > 24 | > 28 |
| Output level: | 35 dB IMA ₃ | dB _µ V | | 98 | 98 | |
| | 60 dB IMA ₃ | dB _µ V | 92 | 92 | 92 | 98 |
| Operating voltage | V~ | 230 | | 230 | | 230 |
| Remote feeding LNB | mA | max. 500 | | max. 500 | | max. 500 |
| Power consumption | | | | | | |
| without LNB remote feeding | W | 8,0 | | 8,0 | | 8,0 |
| Dimensions | mm | 345 x 120 x 80 | | 345 x 120 x 80 | | 345 x 120 x 80 |
| Weight | kg | 1,6 | | 1,6 | | 1,6 |

| Type | MS 9012 N | | MS 9016 N | |
|----------------------------|------------------------|-------------------|-----------|----------------|
| Article No. | 1016 1509 | | 1016 1510 | |
| Frequency range | MHz | 47-862 | 950-2200 | 47-862 |
| Inputs | | 1 | 8 | 1 |
| Outputs subscriber | | 12 | | 16 |
| Gain | dB | 3 ... 5 | -2 ... 3 | 0 ... 4 |
| Isolation: | SAT/SAT | | > 25 | |
| | SAT/TER | | > 25 | > 25 |
| | Subscriber | dB | > 26 | > 28 |
| Output level: | 35 dB IMA ₃ | dB _µ V | 98 | 96 |
| | 60 dB IMA ₃ | dB _µ V | 92 | 92 |
| Operating voltage | V~ | 230 | | 230 |
| Remote feeding LNB | mA | max. 500 | | max. 500 |
| Power consumption | | | | |
| without LNB remote feeding | W | 8,1 | | 9,0 |
| Dimensions | mm | 440 x 120 x 60 | | 440 x 120 x 60 |
| Weight | kg | 1,4 | | 1,4 |



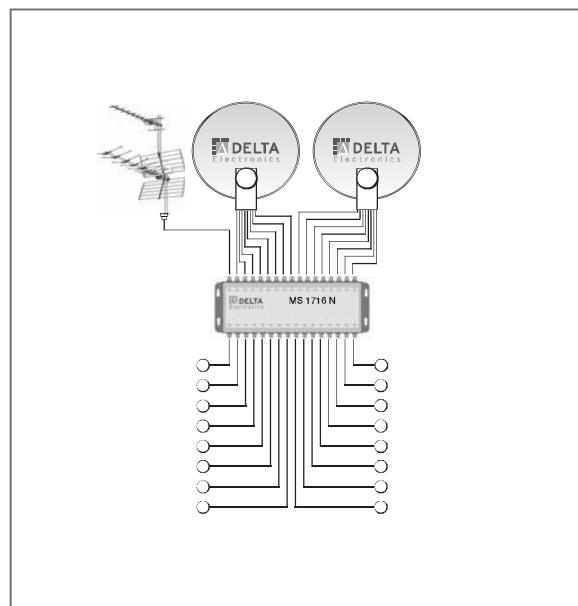
MULTISWITCH 17-CABLE SYSTEM

Stand alone switch with power supply

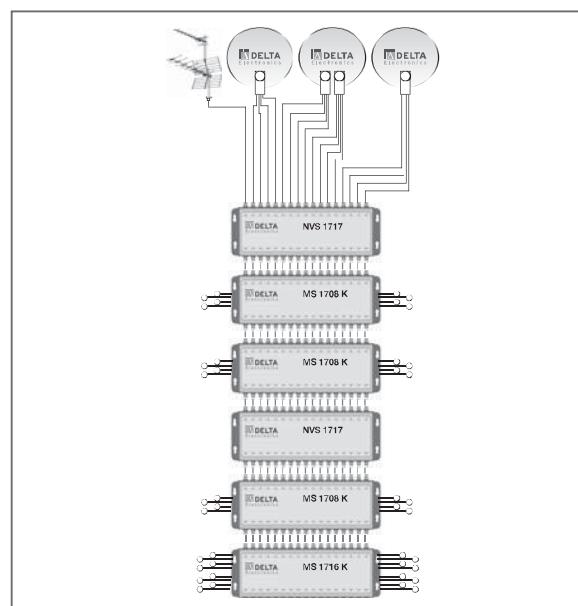
- For selection of 16 satellite polarities
- Input for terrestrial signals
- Switching mode 13/18 V, 0/22 kHz, DiSEqC-signals and Toneburst
- For distribution of analogue and digital signals
- Passive return path
- Metal housing with plastic side brackets
- Connectors F female
- Powering via a plug-in power supply, contained in the scope of supply



| Type | MS 1704 N | | MS 1708 N | | MS 1716 N | | |
|--------------------------------------|------------------------|----------------------------|-----------|----------------------------|-----------|----------------------------|--|
| Article No. | 5700 1265 | | 5700 1257 | | 5700 1258 | | |
| Frequency range | MHz | 5-862 | 950-2200 | 5-862 | 950-2200 | 5-862 | |
| Inputs | | 1 | 16 | 1 | 16 | 1 | |
| Outputs subscriber | | 4 | | 8 | | 16 | |
| Gain | dB | -18 | 0 | -22 | 0 | -24 | |
| Isolation: | SAT/SAT | dB | > 30 | | > 30 | > 30 | |
| | SAT/TER | dB | > 30 | | > 30 | > 30 | |
| | Subscriber | dB | > 25 | > 30 | > 25 | > 30 | |
| Output level: | 35 dB IMA ₃ | dB _{pV} | 100 | 100 | 100 | 100 | |
| Operating voltage | V~ | 230 / 15 V, 2 A | | 230 / 15 V, 2 A | | 230 / 15 V, 2 A | |
| Remote feeding LNB | | max. 1,3 A | | max. 1,3 A | | max. 1,3 A | |
| | | via external power adapter | | via external power adapter | | via external power adapter | |
| Power consumption max. (by receiver) | mA | < 50 | | < 50 | | < 50 | |
| Dimensions / Weight | mm/kg | 370 x 105 x 55 / 1,8 | | 370 x 105 x 55 / 1,8 | | 360 x 205 x 55 / 2,8 | |



■ Distribution network for 16 subscribers with a stand alone switch



■ Cascade system for up to 40 subscribers