SYTRONIC

KABEL GMBH

Antenne Audio Video Spezial

2011

SYTRONIC KABEL GMBH
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Dear Customer,

For twenty-five years the SYTRONIC Kabel GmbH has been manufacturing high-quality coaxial cables in Unna. The continued existence in an exceedingly difficult market environment confirms us in our business strategy to be in a position to supply our customers within the shortest possible time with high-quality cables which are favourable in price.

The above-mentioned Company Anniversary and the enlargement of our Product Programme is for us an opportunity to present you our new Catalogue. On the following pages you will see a survey of our performance range. This includes an extensive selection of cables for aerials, video and audio purposes. In addition we are in a position to take care quite individually of your wishes in the framework of our specialized cable manufacturing sector.

We should like to make use of this opportunity to thank you for the agreeable cooperation and your trust in us shown by you. We sincerely trust that we can continue in this way also in the future and can expand on that.

Your SYTRONIC - Team

SAT/CATV DIGITAL
90-100-105-110-120 dB

Digital-suitable SAT/BK Coaxial Cables “Made by **SYTRONIC**”, that means high-quality products, designed to meet the present and the future requirements of the multi-medial world. This is warranted through the utilization of exceedingly high-quality materials as well as an exceedingly precise manufacturing technique for the achievement of excellent electrical and mechanical properties. In this way, we achieve a uniformly high standard of quality.

The broad manufacturing range does not leave any requirements unfulfilled. We can supply the corresponding product for each particular application. All cable types, however, have the following criteria in common:

- ***Suitable for digital reception***
- ***Suitable for return channel transmission***
- ***Secure from stray radiation***
- ***Very good attenuation***
- ***CELL-PE insulation gas injected***
- ***Shield dampening Class-A***
- ***RoHS – compliant***
- ***Made in Germany***

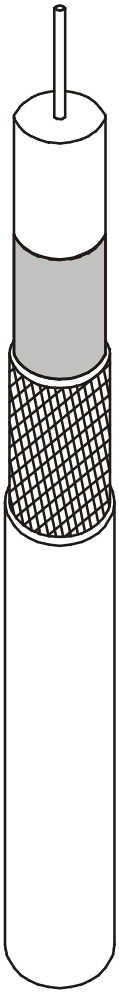
DIGITAL KLASSE A CLASS RoHS Konform CE

75075 SAFS (0.75/4.8CH)
90 dB

CATV – DROP COAXIALCABLE 75 Ohm

Well suitable for digital reception.

- ***double shielded***
- ***high coverage of braid; copper silvered braid wire***
- ***shield dampening Class – A according to EN 50 117***
- ***secure from stray radiation***
- ***suitable for digital use***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



DIGITAL KLASSE A CLASS RoHS Konform CE

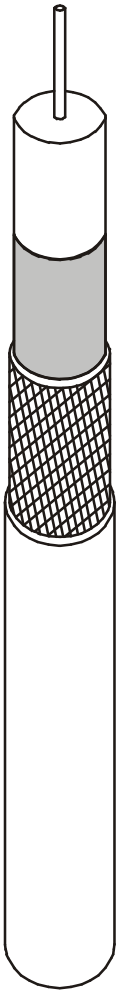
Building:	
Inner conductor	0,75 mm copperwelled
Insulation	4,8 mm PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid silvered wires
c)	
d)	
Jacket	7,0 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
100 MHz - 8,3 300 MHz - 14,8 450 MHz - 17,6 862 MHz - 25,6 1000 MHz - 28,5	1350 MHz - 33,8 1750 MHz - 40,3 2050 MHz - 44,3 2250 MHz - 47,6 2500 MHz - 49,1
Shield dampening (dB)	30 – 1000 MHz > 104 1000 – 3000 MHz > 90
Return loss (dB)	5 – 1000 MHz > 26 1000 – 3000 MHz > 20
Coupling resistance (mOhm/m)	5 MHz < 5 30 MHz < 0,5
Direct current resistance (Ohm/km)	Inner conductor: 130 Outer conductor: 11
Mechanical properties:	
Minimum bending radius	30 mm
Cable weight kg/km	+/- 55
Copper weight kg/km	+/- 24

75065 AFZ (0.7/2.9)
90 dB

SAT/CATV – MINI COAXIALCABLE 75 Ohm

Superior suitability for digital reception. Can be used where there is little room for laying and where short distances are to be bridged.

- ***double shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***shield dampening Class – A according to EN 50117***
- ***secure from stray radiation***
- ***suitable for digital use***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



DIGITAL KLASSE A CLASS RoHS Konform CE

Building:	
Inner conductor	0,65 mm copper
Insulation	3,0 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	4,6 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,85
Attenuation at 20°C (dB 100m)	
100 MHz - 8,8 300 MHz - 16,5 450 MHz - 21,2 862 MHz - 28,2 1000 MHz - 31,0	1350 MHz - 36,9 1750 MHz - 42,5 2050 MHz - 46,3 2250 MHz - 51,3 2500 MHz - 53,6
Shield dampening (dB)	*90 dB*
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 52 Outer conductor: 42
Mechanical properties:	
Minimum bending radius	45 mm
Cable weight kg/km	+/- 29
Copper weight kg/km	+/- 12,5

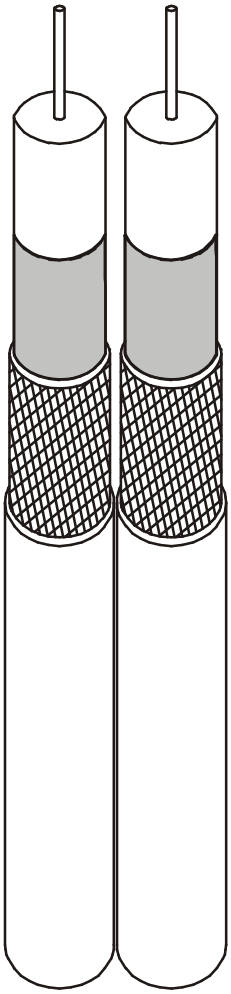
75065 AFZ-TWIN (2x0.7/2.9) 90 dB

SAT/CATV – MINI COAXIALCABLE 75 Ohm

Superior suitability for digital reception. Two lines can be laid without any problems in one working process. (area of utilization: for instance TWIN-LNB)

- ***double shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***shield dampening Class – A according to EN 50117***
- ***secure from stray radiation***
- ***suitable for digital use***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

DIGITAL KLASSE A CLASS RoHS Konform CE



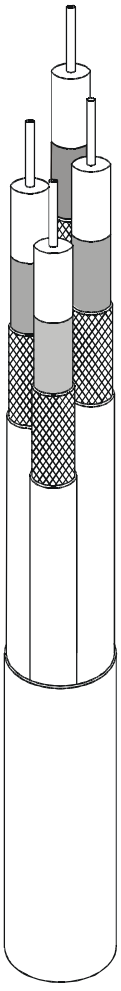
Building:	
Inner conductor	0,65 mm copper
Insulation	3,0 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	9 x 4,6 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,85
Attenuation at 20°C (dB 100m)	
100 MHz - 8,8 300 MHz - 16,5 450 MHz - 21,2 862 MHz - 28,2 1000 MHz - 31,0	1350 MHz - 36,9 1750 MHz - 42,5 2050 MHz - 46,3 2250 MHz - 51,3 2500 MHz - 53,6
Shield dampening (dB)	*90 dB*
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 52 Outer conductor: 42
Mechanical properties:	
Minimum bending radius	45 mm
Cable weight kg/km	+/- 58
Copper weight kg/km	+/- 25

75065 AFZ-QUATTRO (4x0.7/2.9) 90 dB

SAT/CATV – MINI COAXIALCABLE 75 Ohm

Superior suitability for digital reception. Four lines can be laid without any problems in one working process. (area of utilization: e.g. connecting LNB and multi- switch).

- ***double shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***shield dampening Class – A according to EN 50117***
- ***secure from stray radiation***
- ***suitable for digital use***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fullfilled RoHS (EN 2002/95 EG***



DIGITAL KLASSE A CLASS RoHS Konform CE

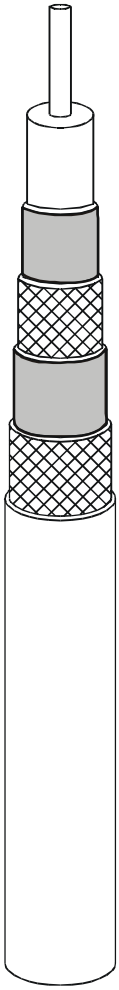
Building:	
Inner conductor	0,65 mm copper
Insulation	3,0 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	12,6 mm PVC white +/- 0,3
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,85
Attenuation at 20°C (dB 100m)	
100 MHz - 8,8 300 MHz - 16,5 450 MHz - 21,2 862 MHz - 28,2 1000 MHz - 31,0	1350 MHz - 36,9 1750 MHz - 42,5 2050 MHz - 46,3 2250 MHz - 51,3 2500 MHz - 53,6
Shield dampening (dB)	*90 dB*
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 52 Outer conductor: 42
Mechanical properties:	
Minimum bending radius	110 mm
Cable weight kg/km	+/- 145
Copper weight kg/km	+/- 50

75080 AFZ 4-S (0.8/3.7)
100 dB

SAT/CATV – MIDI COAXIALCABLE 75 Ohm

***High-End-Cable**, superior suitability for digital TV/HD-TV, internet (very large upload and download capacities possible), internet telephone, etc. Can be used where there is little room for laying and where short distances are to be bridged.*

- ***quad shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***shield dampening Class – A according to EN 50117***
- ***secure from stray radiation***
- ***suitable for return channel transmission; excellent coupling resistance and return loss***
- ***good attenuation***
- ***gas injected insulation***
- ***metermarking***
- ***Made in Germany***
- ***fullfilled RoHS (EN 2002/95 EG)***



DIGITAL KLASSE A CLASS RoHS Konform CE

Building:	
Inner conductor	0,8 mm copper
Insulation	3,7 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	Alu-foil
d)	Copper braid tinned wires
Jacket	5,6 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,85
Attenuation at 20°C (dB 100m)	
100 MHz - 7,2 200 MHz - 11,8 300 MHz - 13,9 450 MHz - 17,8 862 MHz - 25,7 1000 MHz - 28,7	1350 MHz - 33,2 1750 MHz - 38,6 2250 MHz - 45,3 2500 MHz - 48,8
Shield dampening (dB)	30 – 1000 MHz > 110 dB 1000 – 3000 MHz > 100 dB
Return loss (dB)	5 –1000 MHz > 26 dB 1000 – 3000 MHz > 27 dB
Coupling resistance (mOhm/m)	5 MHz < 0,5 30 MHz < 0,05
Direct current resistance (Ohm/km)	-
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 42,5
Copper weight kg/km	+/- 16,5

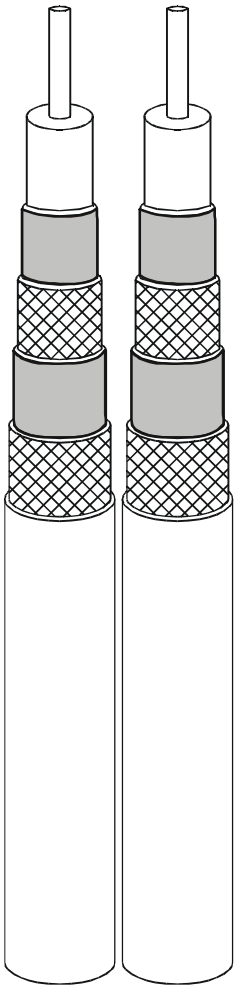
75080 AFZ-TWIN 4-S (2x0.8/3.7) 100 dB

SAT/CATV – MIDI COAXIALCABLE 75 Ohm

***High-End-Cable**, superior suitability for digital TV/HD-TV, internet (very large upload and download capacities possible), internet telephone, etc. Two lines can be laid without any problems in one working process. (area of utilization: for instance TWIN-LNB)*

- ***quad shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***shield dampening Class – A according to EN 50117***
- ***secure from stray radiation***
- ***suitable for return channel transmission; excellent coupling resistance and return loss***
- ***good attenuation***
- ***gas injected insulation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

DIGITAL KLASSE A CLASS RoHS Konform CE



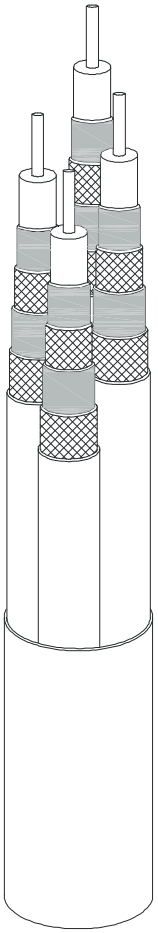
Building:	
Inner conductor	0,8 mm copper
Insulation	3,7 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	Alu-foil
d)	Copper braid tinned wires
Jacket	13,0 x 5,6 mm PVC white +/- 0,3
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,85
Attenuation at 20°C (dB 100m)	
100 MHz - 7,2 200 MHz - 11,8 300 MHz - 13,9 450 MHz - 17,8 862 MHz - 25,7 1000 MHz - 28,7	1350 MHz - 33,2 1750 MHz - 38,6 2250 MHz - 45,3 2500 MHz - 48,8
Shield dampening (dB)	30 – 1000 MHz > 110 dB 1000 – 3000 MHz > 100 dB
Return loss (dB)	5 –1000 MHz > 26 dB 1000 – 3000 MHz > 27 dB
Coupling resistance (mOhm/m)	5 MHz < 0,5 30 MHz < 0,05
Direct current resistance (Ohm/km)	-
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 85
Copper weight kg/km	+/- 33

75080 AFZ-QUATTRO 4-S (4x0.8/3.7) 100 dB

SAT/CATV – MIDI KOAXIALKABEL 75 Ohm

***High-End-Cable**, superior suitability for digital TV/HD-TV, internet (very large upload and download capacities possible), internet telephone, etc. Four lines can be laid without any problems in one working process. (area of utilization: e.g. connecting LNB and multi-switch).*

- ***quad shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***shield dampening Class – A according to EN 50117***
- ***secure from stray radiation***
- ***suitable for return channel transmission; excellent coupling resistance and return loss***
- ***good attenuation***
- ***gas injected insulation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



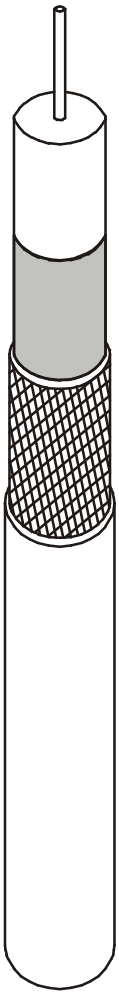
Building:	
Inner conductor	0,8 mm copper
Insulation	3,7 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	Alu-foil
d)	Copper braid tinned wires
Jacket	15,4 mm PVC white +/- 0,3
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,85
Attenuation at 20°C (dB 100m)	
100 MHz - 7,2 200 MHz - 11,8 300 MHz - 13,9 450 MHz - 17,8 862 MHz - 25,7 1000 MHz - 28,7	1350 MHz - 33,2 1750 MHz - 38,6 2250 MHz - 45,3 2500 MHz - 48,8
Shield dampening (dB)	30 – 1000 MHz > 110 dB 1000 – 3000 MHz > 100 dB
Return loss (dB)	5 –1000 MHz > 26 dB 1000 – 3000 MHz > 27 dB
Coupling resistance (mOhm/m)	5 MHz < 0,5 30 MHz < 0,05
Gleichstromwiderstand (Ohm/km)	-
Mechanical properties:	
Minimum bending radius	110 mm
Cable weight kg/km	+/- 170
Copper weight kg/km	+/- 66

75100 AFZ (1.0/4.8)
85 dB

SAT/CATV – DROP COAXCABLE 75 Ohm

Well suitable for digital reception!

- ***Double shielded; high coverage of braid; copper tinned braid wire***
- ***secure from stray radiation***
- ***shield dampening Class – A***
- ***gas injected insulation***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



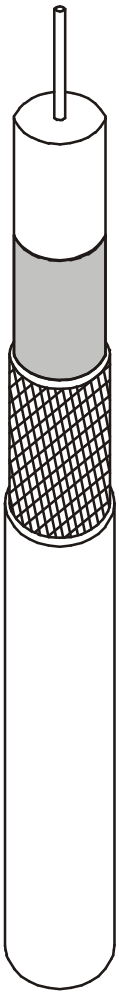
Building:	
Inner conductor	1,0 mm copper
Insulation	4,8 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-Foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	7,0 mm PVC white +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,83
Attenuation at 20°C (dB 100m)	
100 MHz - 6,4 300 MHz - 11,0 450 MHz - 13,5 862 MHz - 18,9 1000 MHz - 21,2	1350 MHz - 24,3 1750 MHz - 27,9 2050 MHz - 31,8 2250 MHz - 33,7 2500 MHz - 35,2
Shield dampening (dB)	85 dB
Direct current loop resistance	> 50 Ohm/km
Return loss	5-1000 MHz > 20 dB 1000-3000 MHz > 18 dB
Direct current resistance (Ohm/km)	Inner conductor: 22 Outer conductor: 27
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 48
Copper weight kg/km	+/- 13

75100 AFZ (1.0/4.6)
90 dB

SAT/CATV – DROP COAXIALCABLE 75 Ohm

Well suitable for digital reception!

- ***double shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***shield dampening Class – A according to EN 50117***
- ***secure from stray radiation***
- ***suitable for digital use***
- ***suitable for return channel transmission; good coupling resistance***
- ***and return loss***
- ***very good attenuation***
- ***gas injected***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



DIGITAL KLASSE A CLASS RoHS Konform CE

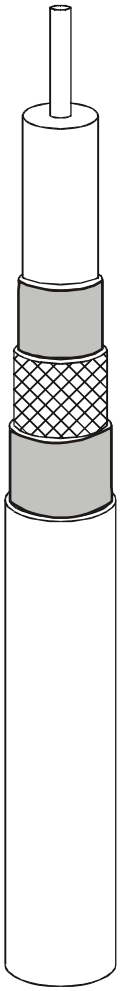
Building:	
Inner conductor	1,0 mm copper
Insulation	4,6 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires >85%
c)	
d)	
Jacket	6,5 mm PVC white +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,85
Attenuation at 20°C (dB 100m)	
5 MHz – 1,72 10 MHz – 2,30 30 MHz – 3,84 50 MHz – 4,86 100 MHz - 6,69 200 MHz - 7,4 300 MHz - 9,6 450 MHz - 12,4	800 MHz - 18,4 1000 MHz - 22,2 1350 MHz - 25,0 1750 MHz - 29,6 2050 MHz - 33,3 2400 MHz - 36,0 3000 MHz - 38,2
Shield dampening (dB)	30 – 2450 MHz > 90
Return loss dB)	5 – 1000 MHz > 26 1000 – 2450 MHz > 20
Coupling resistance (mOhm/m)	k.A.
Direct current resistance (Ohm/km)	Inner conductor: 22 Outer conductor: 10,5
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 51
Copper weight kg/km	+/- 21

75100 AFZ 3-S (1.0/4.6)
100 dB

SAT/CATV – DROP COAXCABLE 75 Ohm

***High- End-Cable**, the optimum solution for the digital reception with large performance reserves for future applications and requirements.*

- ***triple shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***secure from stray radiation***
- ***shield dampening Class – A according to EN 50 117***
- ***suitable for return channel transmission; very well coupling resistance and return loss***
- ***gas injected insulation***
- ***very good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



DIGITAL KLASSE A CLASS RoHS Konform CE

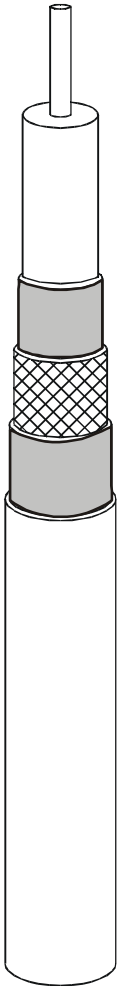
Building:	
Inner conductor	1,0 mm copper
Insulation	4,65 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	Alu-foil
d)	
Jacket	7,0 mm PVC white +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,85
Attenuation at 20°C (dB 100m)	
100 MHz - 4,5 200 MHz - 7,4 300 MHz - 9,6 450 MHz - 12,4 800 MHz - 18,4 1000 MHz - 22,2	1350 MHz - 25,0 1750 MHz - 29,6 2050 MHz - 33,3 2400 MHz - 36,0 3000 MHz - 38,2
Shield dampening (dB)	30 – 1000 MHz > 110 1000 – 3000 MHz > 93
Return loss (dB)	5 – 1000 MHz > 28 1000 – 3000 MHz > 25
Coupling resistance (mOhm/m)	5 MHz < 2 30 MHz < 0,33
Direct current resistance (Ohm/km)	-
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 44
Copper weight kg/km	+/- 15

75100 AFZ 3-S (1.0/4.6)
110 dB

SAT/CATV – DROP COAXIALCABLE 75 Ohm

***High-End-Cable**, the optimum solution for the digital reception with large performance reserves for future applications and requirements. A modified cable construction ensures even better properties.*

- ***triple shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***secure from stray radiation***
- ***shield dampening Class – A according to EN 50 117***
- ***suitable for return channel transmission; excellent coupling resistance and return loss***
- ***gas injected insulation***
- ***very good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



DIGITAL KLASSE A CLASS RoHS Konform CE

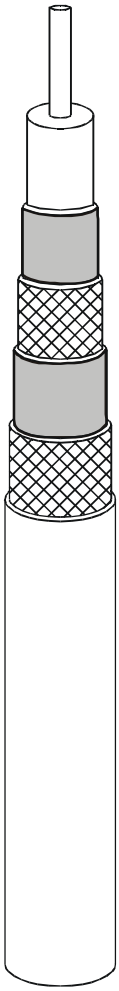
Building:	
Inner conductor	1,0 mm copper
Insulation	4,65 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	Alu-foil
d)	
Jacket	7,0 mm PVC white +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,85
Attenuation at 20°C (dB 100m)	
100 MHz - 4,5 200 MHz - 7,4 300 MHz - 9,6 450 MHz - 12,4 800 MHz - 18,4 1000 MHz - 22,2	1350 MHz - 25,0 1750 MHz - 29,6 2050 MHz - 33,3 2400 MHz - 36,0 3000 MHz - 38,2
Shield dampening (dB)	30 – 470 MHz > 120 470 – 1800 MHz > 107 1800 - 2450 MHz > 107
Return loss (dB)	30 – 470 MHz > 30 470 – 1800 MHz > 28 1800 - 2450 MHz > 20
Coupling resistance (mOhm/m)	5 MHz < 2 30 MHz < 0,30
Direct current resistance (Ohm/km)	-
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 44,5
Copper weight kg/km	+/- 18,5

75100 AFZ 4-S (1.0/4.6)
105 dB

SAT/CATV – DROP COAXIALCABLE 75 Ohm

***High- End-Cable**, the optimum solution for the digital reception with large performance reserves for future applications and requirements. .*

- ***quad shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***shield dampening Class – A according to EN 50 117***
- ***secure from stray radiation***
- ***suitable for return channel transmission; very good coupling resistance and return loss***
- ***very good attenuation***
- ***gas injected insulation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



DIGITAL KLASSE A CLASS RoHS Konform CE

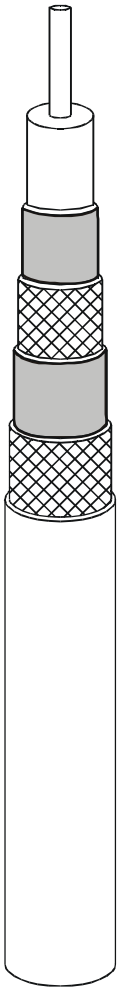
Building:	
Inner conductor	1,0 mm copper
Insulation	4,65 mm Zell-PE. +/- 0,1
Outer conductor	
a)	Alu-Foil
b)	Copper braid tinned wires
c)	Alu-Foil
d)	Copper braid tinned wires
Jacket	7,0 mm PVC white +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,85
Attenuation at 20°C (dB 100m)	
100 MHz - 4,5 300 MHz - 9,6 450 MHz - 12,8 800 MHz - 18,4 1000 MHz - 22,2	1350 MHz - 25,0 1750 MHz - 29,6 2050 MHz - 33,3 2400 MHz - 36,0 3000 MHz - 38,2
Shield dampening (dB)	30 – 470 MHz > 105 dB 470 – 1800 MHz > 105 dB 1800 - 2450 MHz > 105 dB
Return loss (dB)	30 – 470 MHz > 28 dB 470 – 1000 MHz > 28 dB 1000 - 2450 MHz > 28 dB
Coupling resistance (mOhm/m)	5 MHz < 2 30 MHz < 0,2
Direct current resistance (Ohm/km)	-
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 51,5
Copper weight kg/km	+/- 22

75100 AFZ 4-S (1.0/4.6)
120 dB

SAT/CATV - DROP COAXIALCABLE 75 Ohm

***High-End-Cable**, superior suitability for digital TV/HD-TV, internet (very large upload and download capacities possible), internet telephone, etc.*

- ***quad shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***shield dampening Class – A according to EN 50 117***
- ***secure from stray radiation***
- ***suitable for return channel transmission; excellent coupling resistance and return loss***
- ***very good attenuation***
- ***gas injected insulation***
- ***metermarkierung***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



DIGITAL KLASSE A CLASS RoHS Konform CE

Building:	
Inner conductor	1,0 mm copper
Insulation	4,65 mm Zell-PE. +/- 0,1
Outer conductor	
a)	Alu-Foil
b)	Copper braid tinned wires
c)	Alu-Foil
d)	Copper braid tinned wires
Jacket	7,0 mm PVC white +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,85
Attenuation at 20°C (dB 100m)	
100 MHz - 4,5 300 MHz - 9,6 450 MHz - 12,8 800 MHz - 18,4 1000 MHz - 22,2	1350 MHz - 25,0 1750 MHz - 29,6 2050 MHz - 33,3 2400 MHz - 36,0 3000 MHz - 38,2
Shield dampening (dB)	30 – 470 MHz > 130 dB 470 – 1800 MHz > 120 dB 1800 - 2450 MHz > 110 dB
Return loss (dB)	30 – 470 MHz > 30 dB 470 – 1000 MHz > 28 dB 1000 - 2450 MHz > 28 dB
Coupling resistance (mOhm/m)	5 MHz < 1,5 30 MHz < 0,2
Direct current resistance (Ohm/km)	-
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 55,5
Copper weight kg/km	+/- 26

SAT/CATV STANDARD > 75 DB

You are looking for an alternative which is good value for money, but you do not want to do without quality?

Very well, the SAT/BK Standard Coaxial Cables offered by **SYTRONIC** represent products which are very reasonable in price, but they are not cheap. Also in this sector, the available selection is comprehensive.

The products are distinguished by the following quality criteria:

- ***Shield dampening Class – B according to EN 50 117***
- ***Very good attenuatuion***
- ***Cables with cell-PE insulation gas injected***
- ***RoHS – compliant***
- ***Made in Germany***

RoHS Konform

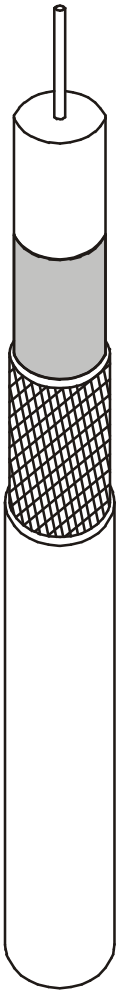
CE

75022 AF (0.6L/3.0)
75 dB

APPLIANCE LINE FLEXIBLE 75 Ohm

Flexible appliance line; for instance for the connection of TV and video recorders or receivers.

- ***double shielded***
- ***copper tinned braid wire***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

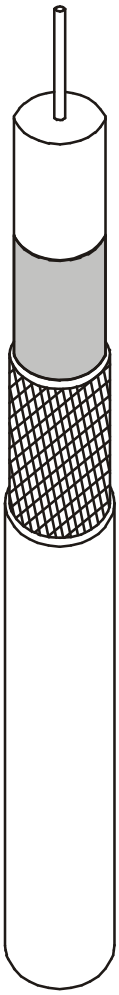
Building:	
Inner conductor	7 x 0,20 mm copper
Insulation	3,1 mm PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	5,0 mm PVC white +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
	100 MHz - 12,8 300 MHz - 22,6 450 MHz - 26,8 862 MHz - 40,0 1000 MHz - 41,4
Shield dampening (dB)	*75 dB*
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 80 Outer conductor: 18
Mechanical properties:	
Minimum bending radius	30 mm
Cable weight kg/km	+/- 30
Copper weight kg/km	+/- 11,5

75040 AFZ (0.4/1.9)
75 dB

CATV – MINI COAXIALCABLE 75 Ohm

Can be used where there is little room for laying and where short distances are to be bridged.

- ***double shielded***
- ***copper tinned braid wire***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

Building:	
Inner conductor	0,4 mm copperweld
Insulation	1,9 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	3,6 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,80
Attenuation at 20°C (dB 100m)	
100 MHz - 16,0 300 MHz - 27,0 450 MHz - 33,4 862 MHz - 45,9 1000 MHz - 51,2	1350 MHz - 57,1 1750 MHz - 65,8 2050 MHz - 72,0
Shield dampening (dB)	*75 dB*
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 350 Outer conductor: 25
Mechanical properties:	
Minimum bending radius	30 mm
Cable weight kg/km	+/- 18
Copper weight kg/km	+/- 11,5

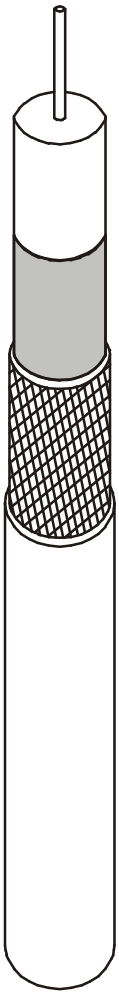
75040 AFS (0.4/2.6)
75 dB

CATV – MINI COAXIALCABLE 75 Ohm

Can be used where there is little room for laying and where short distances are to be bridged.

- ***double shielded***
- ***copper tinned braid wire***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

RoHS Konform CE



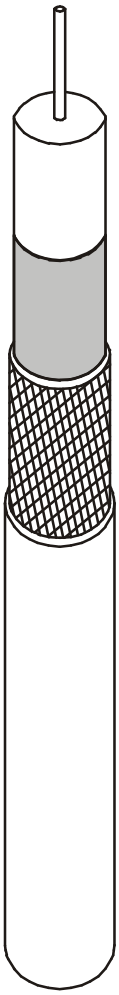
Building:	
Inner conductor	0,4 mm copperweld
Insulation	2,6 mm PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	4,1 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,60
Attenuation at 20°C (dB 100m)	
100 MHz - 15,0 300 MHz - 26,7 450 MHz - 33,5 862 MHz - 45,1 1000 MHz - 50,5	1350 MHz - 56,6 1750 MHz - 62,8 2050 MHz - 70,3
Shield dampening (dB)	*75 dB*
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 350 Outer conductor: 27
Mechanical properties:	
Minimum bending radius	30 mm
Cable weight kg/km	+/- 22
Copper weight kg/km	+/- 11,5

75065 AF (0.65/3.7)
75 dB

CATV – COAXIALCABLE 75 Ohm

Standard cable for indoors installation.

- ***double shielded***
- ***copper tinned braid wire***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

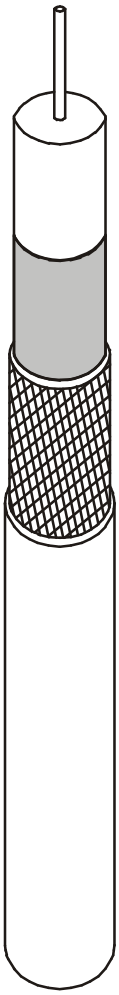
Building:	
Inner conductor	0,65 mm copper
Insulation	3,7 mm PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	5,9 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
100 MHz - 10,2 300 MHz - 16,7 450 MHz - 22,0 862 MHz - 29,0 1000 MHz - 33,7	1350 MHz - 38,0 1750 MHz - 44,6 2050 MHz - 48,5 2250 MHz - 52,1 2500 MHz - 53,2
Shield dampening (dB)	*75 dB*
Return loss (dB)	-
Coupling resistance (mOhm/m)	-.
Direct current resistance (Ohm/km)	Inner conductor: 52 Outer conductor: 26
Mechanical properties:	
Minimum bending radius	30 mm
Cable weight kg/km	+/- 38
Copper weight kg/km	+/- 12

75070 AF (0.7/4.4)
75 dB

CATV – COAXIALCABLE 75 Ohm

Standard cable for indoors installation.

- ***double shielded***
- ***copper tinned braid wire***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

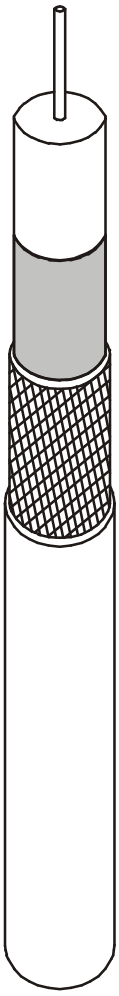
Building:	
Inner conductor	0,70 mm copper
Insulation	4,4 mm PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	6,5 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
100 MHz - 8,4 300 MHz - 16,,0 450 MHz - 19,5 862 MHz - 27,1 1000 MHz - 30,9	1350 MHz - 37,2 1750 MHz - 42,0 2050 MHz - 46,8 2250 MHz - 50,0 2500 MHz - 52,4
Shield dampening (dB)	*75 dB*
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 47 Outer conductor: 23
Mechanical properties:	
Minimum bending radius	30 mm
Cable weight kg/km	+/- 44
Copper weight kg/km	+/- 12

75075 AF (0.75/4.8)
75 dB

CATV – COAXIALCABLE 75 Ohm

Standard cable for indoors installation.

- ***double shielded***
- ***copper tinned braid wire***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

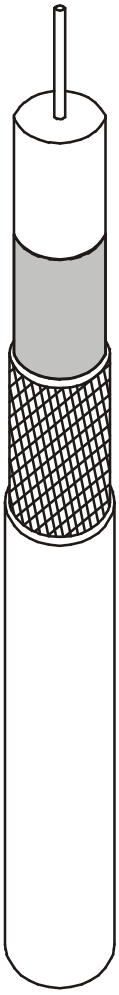
Building:	
Inner conductor	0,75 mm copper
Insulation	4,8 mm PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	7,0 mm PVC weiss +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
100 MHz - 8,8 300 MHz - 15,0 450 MHz - 17,5 862 MHz - 25,8 1000 MHz - 28,5	1350 MHz - 34,4 1750 MHz - 40,2 2050 MHz - 45,8 2250 MHz - 49,0 2500 MHz - 51,2
Shield dampening (dB)	*75 dB*
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 40 Outer conductor: 20
Mechanical properties:	
Minimum bending radius	30 mm
Cable weight kg/km	+/- 47
Copper weight kg/km	+/- 13

75065 AFZ (0.7/2.9)
75 dB

SAT/CATV – MINI COAXIALCABLE 75 Ohm

Can be used where there is little room for laying and where short distances are to be bridged.

- ***double shielded***
- ***copper tinned braid wire***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

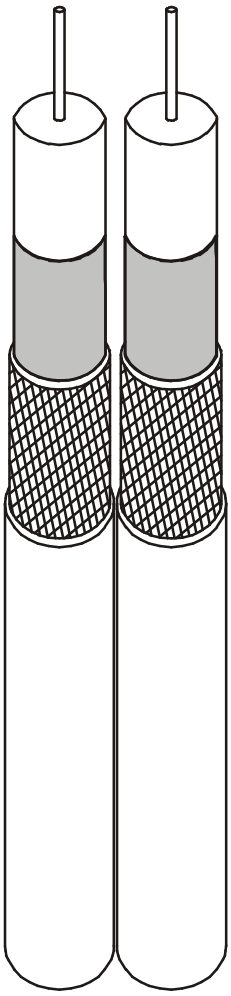
Building:	
Inner conductor	0,65 mm copper
Insulation	3,0 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	4,6 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,80
Attenuation at 20°C (dB 100m)	
100 MHz - 8,8 300 MHz - 16,5 450 MHz - 21,2 862 MHz - 28,2 1000 MHz - 31,0	1350 MHz - 36,9 1750 MHz - 42,5 2050 MHz - 46,3 2250 MHz - 51,3 2500 MHz - 53,6
Shield dampening (dB)	*75 dB*
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 52 Outer conductor: 27
Mechanical properties:	
Minimum bending radius	45 mm
Cable weight kg/km	+/- 26
Copper weight kg/km	+/- 9,5

75065 AFZ-TWIN (2x0.7/2.9)
75 dB

SAT/CATV – MINI COAXIALCABLE 75 Ohm

Can be used where there is little room for laying and where short distances are to be bridged. Two lines can be laid without any problems in one working process. (area of utilization: for instance TWIN-LNB).

- ***double shielded***
- ***copper tinned braid wire***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

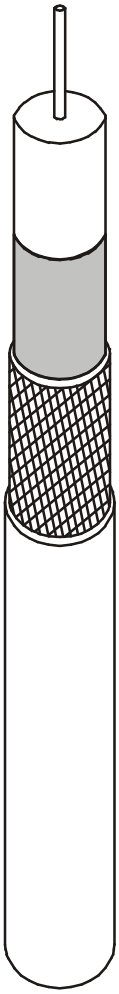
Building:	
Inner conductor	0,65 mm copper
Insulation	3,0 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	9,2x4,6 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,80
Attenuation at 20°C (dB 100m)	
100 MHz - 8,8 300 MHz - 16,5 450 MHz - 21,2 862 MHz - 28,2 1000 MHz - 31,0	1350 MHz - 36,9 1750 MHz - 42,5 2050 MHz - 46,3 2250 MHz - 51,3 2500 MHz - 53,6
Shield dampening (dB)	*75 dB*
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 52 Outer conductor: 27
Mechanical properties:	
Minimum bending radius	45 mm
Cable weight kg/km	+/- 52
Copper weight kg/km	+/- 19

75075 AFZ (0.75/3.4)
75 dB

SAT/CATV – MIDI COAXIALCABLE 75 Ohm

A good compromise. Can be used where there is little room for laying and where short distances are to be bridged but the electrical properties are respectable although.

- ***double shielded***
- ***copper tinned braid wire***
- ***insulation gas injected***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

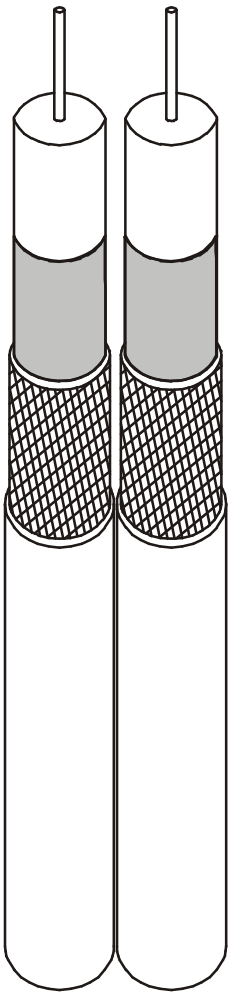
Building:	
Inner conductor	0,75 mm copper
Insulation	3,4 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	5,5 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,80
Attenuation at 20°C (dB 100m)	
100 MHz - 7,4 300 MHz - 15,0 450 MHz - 19,2 862 MHz - 26,0 1000 MHz - 28,9	1350 MHz - 35,0 1750 MHz - 40,4 2050 MHz - 45,1 2250 MHz - 50,1 2500 MHz - 52,2
Shield dampening (dB)	*75 dB*
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Outer conductor 40 Inner conductor: 25
Mechanical properties:	
Minimum bending radius	50
Cable weight kg/km	+/- 35
Copper weight kg/km	+/- 10,5

75075 AFZ-TWIN(2x0.75/3.4) 75 dB

SAT/CATV – MIDI COAXIALCABLE 75 Ohm

A good compromise. Can be used where there is little room for laying and where short distances are to be bridged. Two lines can be laid without any problems in one working process. (area of utilization: for instance TWIN-LNB) but the electrical properties are respectable although.

- ***double shielded***
- ***copper tinned braid wire***
- ***insulation gas injected***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

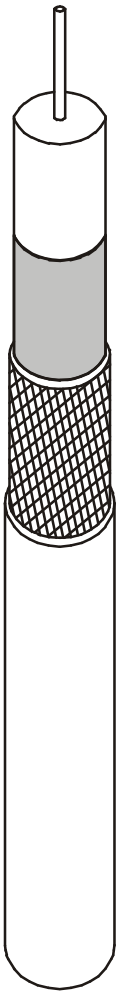
Building:	
Inner conductor	0,75 mm copper
Insulation	3,4 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	11x5,5 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,80
Attenuation at 20°C (dB 100m)	
100 MHz - 7,4 300 MHz - 15,0 450 MHz - 19,2 862 MHz - 26,0 1000 MHz - 28,9	1350 MHz - 35,0 1750 MHz - 40,4 2050 MHz - 45,1 2250 MHz - 50,1 2500 MHz - 52,2
Shield dampening (dB)	*75 dB*
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Outer conductor 40 Inner conductor: 25
Mechanical properties:	
Minimum bending radius	50
Cable weight kg/km	+/- 70
Copper weight kg/km	+/- 21

75100 AFZ (1.0/4.5)
75 dB

SAT/CATV – DROP COAXIALCABLE 75 Ohm

Standard cable for indoors installation.

- ***double shielded***
- ***copper tinned braid wire***
- ***insulation gas injected***
- ***very good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

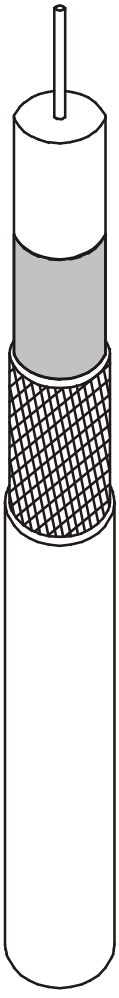
Building:	
Inner conductor	1,0 mm copper
Insulation	4,5 mm Cell-PE +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	6,5 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,80
Attenuation at 20°C (dB 100m)	
100 MHz - 6,4 300 MHz - 11,1 450 MHz - 13,8 862 MHz - 19,1 1000 MHz - 21,9	1350 MHz - 25,8 1750 MHz - 29.7 2050 MHz - 33,4 2250 MHz - 35,6 2500 MHz - 36,8
Shield dampening (dB)	75 dB
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Outer conductor 22 Inner conductor: 31
Mechanical properties:	
Minimum bending radius	45
Cable weight kg/km	+/- 44
Copper weight kg/km	+/- 14

75110 AFZ (1.1/5.0)
75 dB

SAT/CATV – DROP COAXIALCABLE 75 Ohm

Standard cable for indoors installation.

- ***double shielded***
- ***copper tinned braid wire***
- ***insulation gas injected***
- ***very good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG***



RoHS Konform CE

Building:	
Inner conductor	1,1 mm copper
Insulation	4,8 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	7,0 mm PVC white +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,80
Attenuation at 20°C (dB 100m)	
100 MHz - 6,3 300 MHz - 10,8 450 MHz - 13,0 862 MHz - 18,8 1000 MHz - 20,6	1350 MHz - 23,7 1750 MHz - 27,2 2050 MHz - 30,7 2250 MHz - 32,7 2500 MHz - 33,8
Shield dampening (dB)	75 dB
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Outer conductor 19 Inner conductor: 20,5
Mechanical properties:	
Minimum bending radius	50
Cable weight kg/km	+/- 48
Copper weight kg/km	+/- 17,5

SAT/CATV – UNDERGROUND CABLE
75-90-120 dB

The SAT/CATV Coaxial Underground Cables are suitable, on account of their PE coating, for underground operation and, in connection with black cable sheathing, for installation in outside areas.

On account of the larger cable diameter and the ensuing improved electrical properties, it is possible to bridge also extended distances, without the assistance of regenerative repeaters.

For the installation in the inside of buildings, the cables can be equipped also with PVC sheathing. Please contact us with your specified inquiry.
We manufacture types for the analogous as well as for the digital transmission. All products are distinguished by the following quality criteria:

- ***Shield dampening Class – B or A according to EN 50 117***
- ***Excellent attenuation***
- ***Cables with cell-PE insulation gas injected***
- ***RoHS – compliant***
- ***Made in Germany***

RoHS
Konform

CE

75110 AF (1.1/7.3)
75 dB

CATV UNDERGROUND– COAXIALCABLE 75 Ohm

Cable for outdoors- and underground installation.

- ***double shielded***
- ***copper tinned braid wire***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

RoHS Konform CE

Building:	
Inner conductor	1,1 mm copper
Insulation	7,3 mm PE +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	10,5 mm PE black +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,60
Attenuation at 20°C (dB 100m)	
100 MHz - 5,4 300 MHz - 9,6 450 MHz - 12,2 862 MHz - 17,8 1000 MHz - 19,2	1350 MHz - 23,4 1750 MHz - 27,2 2050 MHz - 30,1 2250 MHz - 31,4 2500 MHz - 35,0
Shield dampening (dB)	75 dB
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Outer conductor 18 Inner conductor: 13
Mechanical properties:	
Minimum bending radius	100
Cable weight kg/km	+/- 90
Copper weight kg/km	+/- 20.5

75160 AF (1.6/7.3)
75 dB

SAT/CATV UNDERGROUND– COAXIALCABLE 75 Ohm

Cable for outdoors- and underground installation and for longer distances.

- ***double shielded***
- ***copper tinned braid wire***
- ***insulation gas injected***
- ***very good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG***

RoHS Konform CE

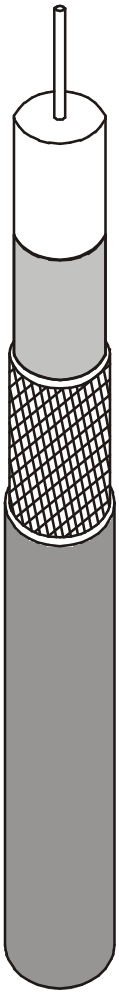
Building:	
Inner conductor	1,6 mm copper
Insulation	7,3 mm Cell-PE +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	10,3 mm PE black +/- 0,2
Electrical properties:	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,81
Attenuation at 20°C (dB 100m)	
100 MHz - 4,1 300 MHz - 7,9 450 MHz - 9,6 862 MHz - 13,9 1000 MHz - 14,8	1350 MHz - 18,3 1750 MHz - 21,1 2050 MHz - 23,9 2250 MHz - 26,1 2500 MHz - 28,3
Shield dampening (dB)	75 dB
Return loss (dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Outer conductor 9 Inner conductor: 13
Mechanical properties:	
Minimum bending radius	110 mm
Cable weight kg/km	+/- 85
Copper weight kg/km	+/- 30,5

75160 AF (1.6/7.3)
90 dB

SAT/CATV– UNDERGROUND COAXCABLE 75 Ohm

Cable for underground installation and for longer distances. Well suitable for digital use.

- ***Double shielded; high coverage of braid; copper tinned braid wire***
- ***secure from stray radiation***
- ***shield dampening Class – A according to EN 50117***
- ***suitable for digital use***
- ***gas injected insulation***
- ***good attenuation***
- ***metermarking***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



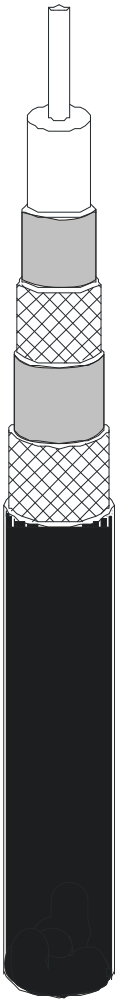
Building:	
Inner conductor	1,6 mm copper
Insulation	7,3 mm Cell-PE +/- 0,1
Outer conductor	
a)	Alu-foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	10,3 mm PE green +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,81
Attenuation at 20°C (dB 100m)	
100 MHz - 4,1 300 MHz - 7,9 450 MHz - 9,6 862 MHz - 13,9 1000 MHz - 14,8	1350 MHz - 18,3 1750 MHz - 21,1 2050 MHz - 23,9 2250 MHz - 26,1 2500 MHz - 28,3
Shield dampening (dB)	90 dB
Return loss(dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 9 Outer conductor: 11
Mechanical properties:	
Minimum bending radius	110 mm
Cable weight kg/km	+/- 105
Copper weight kg/km	+/- 50,5

75160 AF 4-S (1.6/7.3)
120 dB

SAT/CATV– UNDERGROUND COAXCABLE 75 Ohm

High-End-Cable *for outdoors- and underground installation and for longer distances. Superior suitability for digital TV/HD-TV, internet (very large upload and download capacities possible), internet telephone, etc.*

- ***quad shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***shield dampening Class – A according to EN 50 117***
- ***secure from stray radiation***
- ***suitable for return channel transmission; excellent coupling resistance and return loss***
- ***very good attenuation***
- ***gas injected insulation***
- ***metermarkierung***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



DIGITAL KLASSE A CLASS — RoHS Konform — CE

Building:	
Inner conductor	1,6 mm copper
Insulation	7,3 mm Cell-PE +/- 0,1
Outer conductor	
a)	Alu-Foil
b)	Copper braid tinned wires
c)	Alu-Foil
d)	Copper braid tinned wires
Jacket	10,3 mm PE black +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,81
Attenuation at 20°C (dB 100m)	
100 MHz - 4,1 300 MHz - 7,9 450 MHz - 9,6 862 MHz - 13,9 1000 MHz - 14,8	1350 MHz - 18,3 1750 MHz - 21,1 2050 MHz - 23,9 2250 MHz - 26,1 2500 MHz - 28,3
Shield dampening (dB)	von 30 – 470 MHz > 120 dB von 470 – 1800 MHz > 120 dB von 1800 - 2450 MHz > 120 dB
Return loss(dB)	von 30 – 470 MHz > 22 dB von 470 – 1000 MHz > 20 dB von 1000 - 2450 MHz > 20 dB
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	-
Mechanical properties:	
Minimum bending radius	110 mm
Cable weight kg/km	+/- 107
Copper weight kg/km	+/- 46

CCTV-VIDEOCABLE 75 OHM

Coaxial video cables are distinguished particularly by their precise manufacture and the close tolerance range necessitated by this fact, regarding both the electrical and mechanical properties.

We manufacture video cables both for analogous and digital transmission. These types are preferably used for the networks of video systems or in the technical systems of studio installations.

- ***Good attenuation***
- ***RoHs – compliant***
- ***Made in Germany***

RoHS Konform

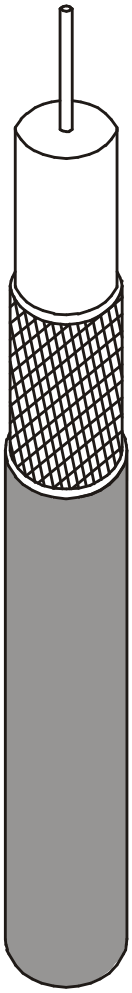
CE

75022 V (0.6L/3.7)

CCTV VIDEOCABLE FLEXIBLE 75 Ohm

Cable for the installation inside rooms: for instance for networks of close-circuit video monitoring systems.

- ***single shielded***
- ***copper bare braid wire***
- ***good attenuation***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

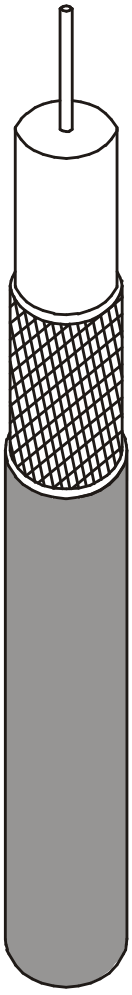
Building:	
Inner conductor	7 x 0,20 mm copper
Insulation	3,7 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid bare wires
b)	
c)	
d)	
Jacket	6,1mm PVC green +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
	1 MHz - 1,2 5 MHz - 2,8 10 MHz - 4,1
Shield dampening (dB)	-
Return loss(dB)	-.
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 82 Outer conductor: 13
Mechanical properties:	
Minimum bending radius	30 mm
Cable weight kg/km	+/- 45
Copper weight kg/km	+/- 24

75060 V (0.6/3.7)

CCTV VIDEOCABLE 75 Ohm

Cable for the installation inside rooms: for instance for networks of close-circuit video monitoring systems.

- ***single shielded***
- ***copper bare braid wire***
- ***good attenuation***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

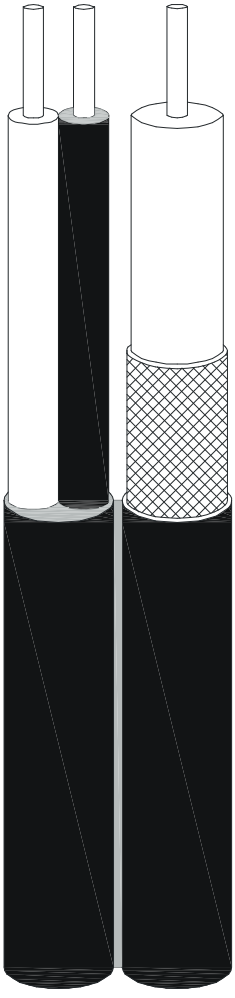
Building:	
Inner conductor	0,6 mm copper
Insulation	3,7 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid bare wires
b)	
c)	
d)	
Jacket	6,1mm PVC green +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
	1 MHz - 1,1 5 MHz - 2,5 10 MHz - 3,5
Shield dampening (dB)	-
Return loss(dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 63 Outer conductor: 13
Mechanical properties:	
Minimum bending radius	30 mm
Cable weight kg/km	+/- 45
Copper weight kg/km	+/- 24

75060 V + 275
(0.6/3.7 + 2 x 0,75 mm²)

CCTV VIDEO-SYSTEMCABLE 75 Ohm

Cable for instance for networks of close-circuit video monitoring systems + power supply 12/24 V low voltage.

- ***single shielded***
- ***copper bare braid wire***
- ***good attenuation***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

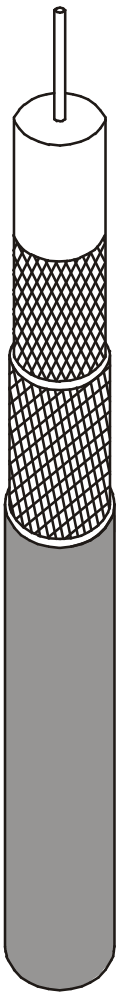
Building:	
Inner conductor	0,6 mm copper
Insulation	3,7 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid bare wires
b)	
c)	
d)	
Jacket	12,6 x 6,1mm PVC black +/- 0,3
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
	1 MHz - 1,1 5 MHz - 2,5 10 MHz - 3,5
H05Z – K 2 x 0,75 mm² red + black	
Return loss(dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 63 Outer conductor: 13
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 98,5
Copper weight kg/km	+/- 38

75060 V/DZ (0.6/3.7DZ)

CCTV VIDEOCABLE 75 Ohm

Cable for instance for networks of close-circuit video monitoring systems; Utilization in studio applications and in all instances where the video signal must be protected against strong stray interference radiation.

- ***double shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***good attenuation***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

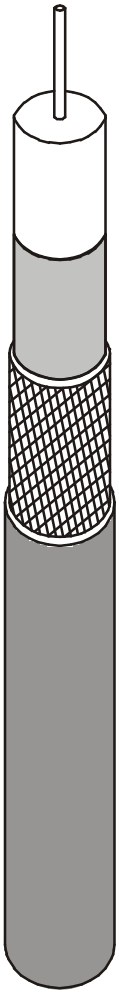
Building:	
Inner conductor	0,6 mm copper
Insulation	3,7 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid tinned wires
b)	Copper braid tinned wires
c)	
d)	
Jacket	6,4mm PVC +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
1 MHz - 1,6 5 MHz - 2,5 10 MHz - 3,3 20 MHz - 4,5 50 MHz - 7,1	100 MHz - 10,4 200 MHz - 15,7 300 MHz - 19,5 450 MHz - 24,9 862 MHz - 36,8
Shield dampening (dB)	*> 80 dB*
Return loss(dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 63 Outer conductor: 6,3
Mechanical properties:	
Minimum bending radius	30 mm
Cable weight kg/km	+/- 70,6
Copper weight kg/km	+/- 38

75060 VZ (0.6/2.8)

MINI-CCTV VIDEOCABLE 75 Ohm

Cable for instance for networks of close-circuit video monitoring systems. Can used where there is little room for laying and where short distances are to be bridged.

- ***double shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***good attenuation***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

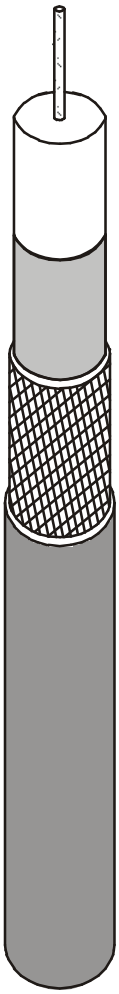
Building:	
Inner conductor	0,6 mm copper
Insulation	2,8 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-Foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	4,5 mm PVC green +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,85
Attenuation at 20°C (dB 100m)	
	1 MHz - 1,7 5 MHz - 3,4 10 MHz - 4,4
Shield dampening (dB)	-
Return loss(dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 63 Outer conductor: 15
Mechanical properties:	
Minimum bending radius	25 mm
Cable weight kg/km	+/- 29
Copper weight kg/km	+/- 15

75125 VZ (1.25L/5.0) SDI/HDTV

VIDEOCABLE FLEXIBLE 75 Ohm

Cable for indoors installation; Utilization for SDI and HDTV applications.

- ***double shielded***
- ***high coverage of braid; Inner conductor and braid wire copper tinned***
- ***very good attenuation***
- ***suitable for digital use; suitable for return channel transmission; excellent coupling resistance and return loss***
- ***gas injected insulation***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



DIGITAL RoHS Konform CE

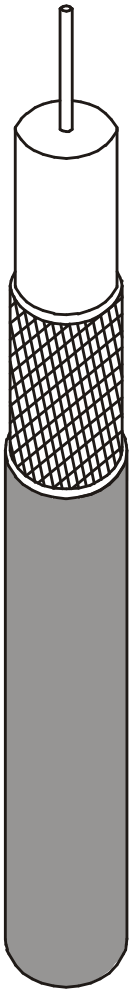
Building:	
Inner conductor	7 x 0,40 mm copper tinned
Insulation	5,0 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-Foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	6,95 mm PVC green +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	55
Velocity (v/c)	0,85
Attenuation at 20°C (dB 100m)	
1 MHz - 0,6 5 MHz - 1,5 10 MHz - 2,3 50 MHz - 5,0 100 MHz - 6,9	200 MHz - 9,9 800 MHz - 22,7 1000 MHz - 26,3
Shield dampening (dB)	*> 90*
Return loss(dB)	30 – 300 MHz > 20 300 – 600 MHz > 25 600 - 900 MHz > 20
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 19 Outer conductor: 12
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 57
Copper weight kg/km	+/- 25

75100 V (1.0/6.6)

CCTV VIDEOCABLE 75 Ohm

Cable for the installation inside rooms; for instance for networks of close-circuit video monitoring systems. Can be used for longer distances.

- ***single shielded***
- ***high coverage of braid; copper bare braid wire***
- ***very good attenuation***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

Building:	
Inner conductor	1,0 mm copper
Insulation	6,3 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid bare wires
b)	
c)	
d)	
Jacket	9,1mm PVC green +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
	1 MHz - 0,6 5 MHz - 1,4 10 MHz - 2,0
Shield dampening (dB)	-
Return loss(dB)	-
Coupling resistance (mOhm/m)	-.
Direct current resistance (Ohm/km)	Inner conductor: 24 Outer conductor: 7,5
Mechanical properties:	
Minimum bending radius	45 mm
Cable weight kg/km	+/- 108
Copper weight kg/km	+/- 39

75100 V (1.0/6.6) PE

UNDERGROUND/ OUTDOOR -CCTV VIDEOCABLE 75 Ohm

Cable for outdoors and underground installation; e.g. for instance for networks of close-circuit video monitoring systems. Can be used for longer distances.

- ***single shielded***
- ***high coverage of braid; copper bare braid wire***
- ***very good attenuation***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

RoHS Konform CE

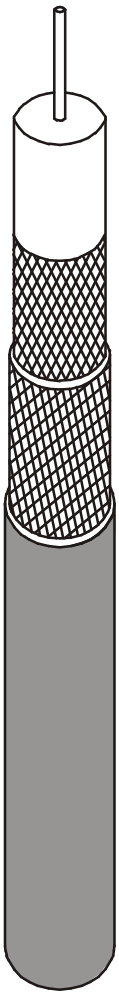
Building:	
Inner conductor	1,0 mm copper
Insulation	6,3 mm PE +/- 0,1
Outer conductor	
a)	Copper braid bare wires
b)	
c)	
d)	
Jacket	9,1mm PE black +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
	1 MHz - 0,6 5 MHz - 1,4 10 MHz - 2,0
Shield dampening (dB)	-
Return loss(dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 24 Outer conductor: 7,5
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 108
Copper weight kg/km	+/- 39

75100 V/D (1.0/6.6 D)

VIDEOCABLE 75 Ohm

Cable for the installation inside rooms; for instance for networks of close-circuit video monitoring systems. Utilization in studio applications and in all instances where the video signal must be protected against strong stray interference radiation. Can be used for longer distances.

- ***double shielded***
- ***high coverage of braid; copper bare braid wire***
- ***very good attenuation***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

Building:	
Inner conductor	1,0 mm copper
Insulation	6,3 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid bare wires
b)	Copper braid bare wires
c)	
d)	
Jacket	9,8 mm PVC green +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
	1 MHz - 0,6 5 MHz - 1,4 10 MHz - 2,0
Shield dampening (dB)	*> 80 dB*
Return loss(dB)	-
Coupling resistance (mOhm/m)	-
Direct current resistance (Ohm/km)	Inner conductor: 24 Outer conductor: 7/6,5
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 140
Copper weight kg/km	+/- 73

RG – CABLE 50/ 75 OHM

SYTRONIC RG coaxial cables are manufactured on the lines of the US Army Military Standard *MIL-C-17*. On account of the materials used and the cable construction applied, exceedingly robust products are the result. They can be offered for the most variegated sectors of application.

We give you here some of the most usual variations. We give you quotations for any other RG types on your request.

- ***Good attenuation***
- ***RoHS – compliant***
- ***Made in Germany***

RoHS
Konform

CE

RG 58/U

RG-CABLE 50 Ohm

Utilization: for instance in radio engineering and transmission.

- ***single shielded***
- ***manufactured on the lines of MIL-C-17***
- ***cheaper alternative***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

RoHS Konform CE

Building:	
Inner conductor	16 x 0,20 mm copper
Insulation	2,95 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid bare wires
b)	
c)	
d)	
Jacket	4,95 mm PVC black +/- 0,2
Electrical properties::	
Impedance	50 Ohm +/- 3
Capacity (pF/m)	103
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
10 MHz - 4,7 20 MHz - 6,8 50 MHz - 11,0 100 MHz - 15,5 200 MHz - 23,2	500 MHz - 37,1 800 MHz - 51,0 1000 MHz - 57,2
Direct current resistance (Ohm/km)	Inner conductor: 36 Outer conductor: 17
Mechanical properties:	
Minimum bending radius	25 mm
Cable weight kg/km	+/- 35
Copper weight kg/km	+/- 13,4
Range of temperature C°	-20 to + 70

RG 58/C/U

RG-CABLE 50 Ohm

Utilization: for instance in radio engineering and transmission.

- ***single shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***manufactured on the lines of MIL-C-17***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

RoHS Konform CE

Building:	
Inner conductor	19 x 0,18 mm copper tinned
Insulation	2,95 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid bare wires
b)	
c)	
d)	
Jacket	4,95 mm PVC black +/- 0,2
Electrical properties::	
Impedance	50 Ohm +/- 3
Capacity (pF/m)	103
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
10 MHz - 4,7 20 MHz - 6,6 50 MHz - 10,7 100 MHz - 15,3 200 MHz - 22,8	500 MHz - 37,0 800 MHz - 48,8 1000 MHz - 55,5
Direct current resistance (Ohm/km)	Inner conductor: 36 Outer conductor: 17
Mechanical properties:	
Minimum bending radius	25 mm
Cable weight kg/km	+/- 35
Copper weight kg/km	+/- 18
Range of temperature C°	-20 bis + 70

RG 58 LOW LOSS

RG-CABLE 50 Ohm

Utilization: for instance in radio engineering and transmission. Similar to RG 58C/U but as a result of gas injected insulation and additional alu foil far better electrical properties.

- ***double shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***gas injected insulation; very good attenuation***
- ***manufactured on the lines of MIL-C-17***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

RoHS Konform CE

Building:	
Inner conductor	1,02 mm copper
Insulation	2,9 mm Cell-PE. +/- 0,1
Outer conductor	
a)	Alu-Foil
b)	Copper braid tinned wires
c)	
d)	
Jacket	5,00 mm PVC black +/- 0,2
Electrical properties::	
Impedance	50 Ohm +/- 3
Capacity (pF/m)	82
Velocity (v/c)	0,81
Attenuation at 20°C (dB 100m)	
100 MHz - 10.3 400 MHz - 20,9 800 MHz - 30,1 1000 MHz - 33,7 1800 MHz - 46,6	2000 MHz - 49,6
Shield dampening (dB)	*>90 dB*
Direct current resistance (Ohm/km)	Inner conductor: 22 Outer conductor: 14
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 41
Copper weight kg/km	+/- 29
Range of temperature C°	-20 bis + 70

RG 8/U

RG-CABLE 50 Ohm

Utilization: e.g. for instance in radio engineering and transmission. Can be used for longer distances. Cheaper alternative to RG 213/U.

- ***single shielded***
- ***high coverage of braid; copper bare braid wire***
- ***very good attenuation***
- ***manufactured on the lines of MIL-C-17***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

RoHS Konform CE

Building:	
Inner conductor	7 x 0,70 mm copper
Insulation	6,4 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid bare wires
b)	
c)	
d)	
Jacket	9,5 mm PVC black +/- 0,2
Electrical properties::	
Impedance	50 Ohm +/- 3
Capacity (pF/m)	103
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
10 MHz - 2,0 20 MHz - 3,0 50 MHz - 4,8 100 MHz - 7,8 200 MHz - 10,6	500 MHz - 17,2 800 MHz - 24,0 1000 MHz - 27,5
Direct current resistance (Ohm/km)	Inner conductor: 6 Outer conductor: 6
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 127
Copper weight kg/km	+/- 54,8
Range of temperature C°	-20 bis + 70

RG 213/U
HALOGENFREE

RG-CABLE 50 Ohm

Utilization: e.g. for instance in radio engineering and transmission. Can be used for longer distances.

- ***single shielded***
- ***high coverage of braid; copper bare braid wire***
- ***very good attenuation***
- ***manufactured on the lines of MIL-C-17***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

RoHS Konform CE

Building:	
Inner conductor	7 x 0,75 mm copper
Insulation	7,3 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid bare wires
b)	
c)	
d)	
Jacket	10,3 mm HM4 black +/- 0,2
Electrical properties::	
Impedance	50 Ohm +/- 3
Capacity (pF/m)	103
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
10 MHz - 1,8 20 MHz - 2,8 50 MHz - 4,4 100 MHz - 6,8 200 MHz - 9,7	500 MHz - 16,2 800 MHz - 21,5 1000 MHz - 24,5
Direct current resistance (Ohm/km)	Inner conductor: 5,5 Outer conductor: 4,5
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 154
Copper weight kg/km	+/- 82
Range of temperature C°	-20 bis + 70

RG 223/U

RG-CABLE 50 Ohm

Utilization: e.g. for instance in radio engineering or as coaxial audio cable; can be used in all instances where the signal must be protected against strong stray interference radiation.

- ***double shielded***
- ***high coverage of braid; inner conductor and braid wires copper silvered***
- ***best properties of conduction***
- ***manufactured on the lines of MIL-C-17***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

RoHS Konform CE

Building:	
Inner conductor	0,9 mm copper silvered
Insulation	2,95 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid silvered wires
b)	Copper braid silvered wires
c)	
d)	
Jacket	5,2 mm PVC black +/- 0,2
Electrical properties::	
Impedance	50 Ohm +/- 3
Capacity (pF/m)	103
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
10 MHz - 4.0 20 MHz - 5,8 50 MHz - 9,4 100 MHz - 13,7 200 MHz - 19,8	500 MHz - 32,9 800 MHz - 42,8 1000 MHz - 50,1
Shield dampening (dB)	*>80 dB*
Direct current resistance (Ohm/km)	Inner conductor: 27 Outer conductor: 9
Mechanical properties:	
Minimum bending radius	25 mm
Cable weight kg/km	+/- 60
Copper weight kg/km	+/- 33,7
Range of temperature C°	-20 bis + 70

RG 214/U

RG-CABLE 50 Ohm

Utilization: e.g. for instance in radio engineering or as coaxial audio cable; can be used in all instances where the signal must be protected against strong stray interference radiation and for longer distances.

- ***double shielded***
- ***high coverage of braid; inner conductor and braid wires copper silvered***
- ***best properties of conduction***
- ***very good attenuation***
- ***manufactured on the lines of MIL-C-17***
- ***fulfilled RoHS (EN 2002/95 EG)***

RoHS Konform CE

Building:	
Inner conductor	7 x 0,75 mm copper silvered
Insulation	7,25 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid silvered wires
b)	Copper braid silvered wires
c)	
d)	
Jacket	10,8 mm PVC black +/- 0,2
Electrical properties::	
Impedance	50 Ohm +/- 3
Capacity (pF/m)	103
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
50 MHz - 4,7 100 MHz - 7,2 200 MHz - 10,5 400 MHz - 15,3 800 MHz - 22,9	1000 MHz - 26,1,0
Shield dampening (dB)	*>70 dB*
Direct current resistance (Ohm/km)	Inner conductor: 5,5 Outer conductor: 4,4
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 205
Copper weight kg/km	+/- 118
Range of temperature C°	-20 bis + 70

RG 174/A/U

RG-MINI-CABLE 50 Ohm

Utilization: e.g. for instance in radio engineering or in the construction of devices; for shorter distances and in all instances where a confined space does not allow any larger cross-sections.

- ***single shielded***
- ***high coverage of braid; copper tinned braid wire***
- ***manufactured on the lines of MIL-C-17***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

RoHS Konform CE

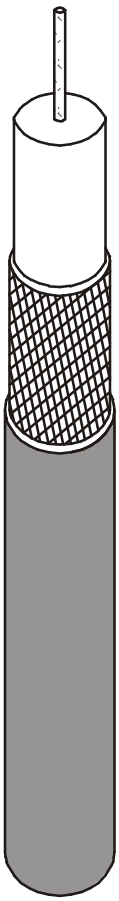
Building:	
Inner conductor	7 x 0,16 mm copperweld
Insulation	1,54 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid tinned wires
b)	
c)	
d)	
Jacket	2,8 mm PVC black +/- 0,2
Electrical properties::	
Impedance	50 Ohm +/- 3
Capacity (pF/m)	103
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
10 MHz - 9,6 20 MHz - 13,7 50 MHz - 21,8 100 MHz - 31,1 200 MHz - 44,5	500 MHz - 72,7 800 MHz - 91,3 1000 MHz -106,1
Direct current resistance (Ohm/km)	Inner conductor: 306 Outer conductor: 54
Mechanical properties:	
Minimum bending radius	15 mm
Cable weight kg/km	+/- 12
Copper weight kg/km	+/- 6,2
Range of temperature C°	-20 bis + 70

RG 178

RG-MINI-CABLE 50 Ohm

Utilization: for instance in radio engineering or in the construction of devices; for shorter distances and in all instances where a confined space does not allow any larger cross-sections or where a higher temperature resistance is required.

- ***single shielded***
- ***high coverage of braid; copper silvered braid wire***
- ***best properties of conduction***
- ***manufactured on the lines of MIL-C-17***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

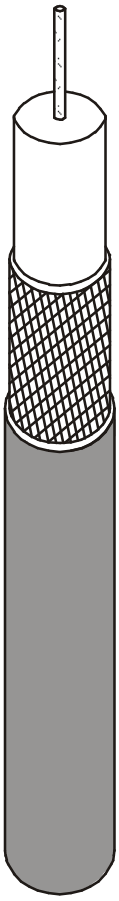
Building:	
Inner conductor	7 x 0,102 mm copperweld silvered
Insulation	0,84 mm PTFE. +/- 0,1
Outer conductor	
a)	Copper braid silvered wires
b)	
c)	
d)	
Jacket	1,8 mm FEP brown/transparent +/- 0,1
Electrical properties::	
Impedance	50 Ohm +/- 2
Capacity (pF/m)	94
Velocity (v/c)	0,7
Attenuation at 20°C (dB 100m)	
	50 MHz - 38,0 100 MHz - 52,5 400 MHz -108 1000 MHz -170 3000 MHz -308
Direct current resistance (Ohm/km)	Inner conductor: 784 Outer conductor: 76
Mechanical properties:	
Minimum bending radius	10 mm
Cable weight kg/km	+/- 9,3
Copper weight kg/km	+/- 3,6
Range of temperature C°	-50 bis + 200

RG 316

RG-MINI-CABLE 50 Ohm

Utilization: for instance in radio engineering or in the construction of devices; for shorter distances and in all instances where a confined space does not allow any larger cross-sections or where a higher temperature resistance is required. Similar to RG 178, but improved electrical properties on account of larger dimensions.

- ***single shielded***
- ***high coverage of braid; copper silvered braid wire***
- ***best properties of conduction***
- ***manufactured on the lines of MIL-C-17***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

Building:	
Inner conductor	7 x 0,17 mm copperweld silvered
Insulation	1,52 mm PTFE. +/- 0,1
Outer conductor	
a)	Copper braid silvered wires
b)	
c)	
d)	
Jacket	2,49 mm FEP brown/transparent +/- 0,1
Electrical properties::	
Impedance	50 Ohm +/- 2
Capacity (pF/m)	94
Velocity (v/c)	0,7
Attenuation at 20°C (dB 100m)	
	50 MHz - 19,2 100 MHz - 28,7 400 MHz - 64,3 1000 MHz -104,8 3000 MHz -209,2
Direct current resistance (Ohm/km)	Inner conductor: 784 Outer conductor: 76
Mechanical properties:	
Minimum bending radius	15 mm
Cable weight kg/km	+/- 18,1
Copper weight kg/km	+/- 8,0
Range of temperature C°	-50 bis + 200

RG 59/B/U

RG-CABLE 75 Ohm

Cable for the installation inside rooms: e.g. for instance for networks of close-circuit video monitoring systems.

- ***single shielded***
- ***high coverage of braid***
- ***manufactured on the lines of MIL-C-17***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

RoHS Konform CE

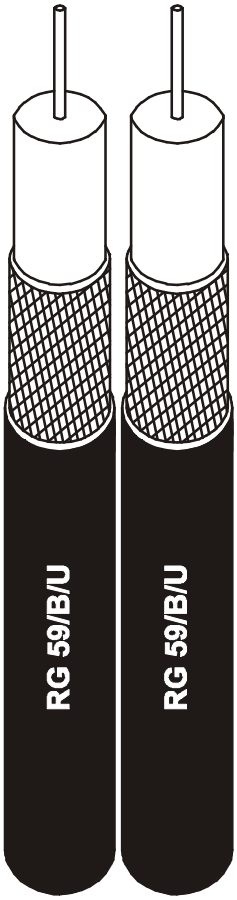
Building:	
Inner conductor	0,584 mm copperweld
Insulation	3,7 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid bare wires
b)	
c)	
d)	
Jacket	6,1 mm PVC black +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
10 MHz - 3,3 20 MHz - 4,7 50 MHz - 7,5 100 MHz - 11,1 200 MHz - 16,8	500 MHz - 27,0 800 MHz - 35,1 1000 MHz - 39,2
Direct current resistance (Ohm/km)	Inner conductor: 169 Outer conductor: 9
Mechanical properties:	
Minimum bending radius	30 mm
Cable weight kg/km	+/- 51
Copper weight kg/km	+/- 23
Range of temperature C°	-20 bis + 70

RG 59/B/U - TWIN

RG-CABLE 75 Ohm

Cable for the installation inside rooms: e.g. for instance for networks of close-circuit video monitoring systems. Two lines can be laid without any problems in one working process.

- ***single shielded***
- ***high coverage of braid***
- ***manufactured on the lines of MIL-C-17***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

Building:	
Inner conductor	0,584 mm copperweld
Insulation	3,7 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid bare wires
b)	
c)	
d)	
Jacket	12,6 x 6,1 mm PVC black +/- 0,3
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
10 MHz - 3,3 20 MHz - 4,7 50 MHz - 7,5 100 MHz - 11,1 200 MHz - 16,8	500 MHz - 27,0 800 MHz - 35,1 1000 MHz - 39,2
Direct current resistance (Ohm/km)	Inner conductor: 169 Outer conductor: 9
Mechanical properties:	
Minimum bending radius	30 mm
Cable weight kg/km	+/- 102
Copper weight kg/km	+/- 46
Range of temperature C°	-20 bis + 70

RG 11/A/U

RG-CABLE 75 Ohm

Cable for the installation inside rooms: e.g. for instance for networks of close-circuit video monitoring systems. Can be used for longer distances.

- ***single shielded***
- ***high coverage of braid***
- ***very good attenuation***
- ***manufactured on the lines of MIL-C-17***
- ***Made in Germany***
- ***fulfilled RoHS (EN 2002/95 EG)***

RoHS Konform CE

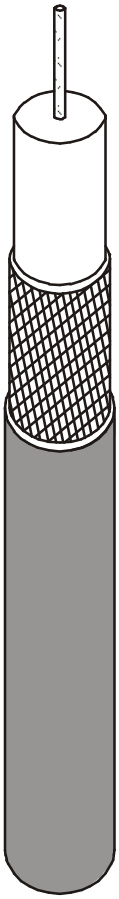
Building:	
Inner conductor	7 x 0,40 mm copper tinned
Insulation	7,3 mm PE. +/- 0,1
Outer conductor	
a)	Copper braid bare wires
b)	
c)	
d)	
Jacket	10,2 mm PVC black +/- 0,2
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	67
Velocity (v/c)	0,66
Attenuation at 20°C (dB 100m)	
10 MHz - 2,3 20 MHz - 3,3 50 MHz - 5,3 100 MHz - 7,7 200 MHz - 11,2	500 MHz - 18,5 800 MHz - 24,3 1000 MHz - 27,7
Direct current resistance (Ohm/km)	Inner conductor: 19 Outer conductor: 4
Mechanical properties:	
Minimum bending radius	50 mm
Cable weight kg/km	+/- 125
Copper weight kg/km	+/- 44
Range of temperature C°	-20 bis + 70

RG 179

RG-MINI-KABEL 75 Ohm

Utilization: for instance in video technics or in the construction of devices; for shorter distances and in all instances where a confined space does not allow any larger cross-sections or where a higher temperature resistance is required.

- ***single shielded***
- ***high coverage of braid; copper silvered braid wire***
- ***best properties of conduction***
- ***Made in Germany***
- ***manufactured on the lines of MIL-C-17***
- ***fulfilled RoHS (EN 2002/95 EG)***



RoHS Konform CE

Building:	
Inner conductor	7 x 0,10 mm copperweld
Insulation	1,55 mm FEP +/- 0,1
Outer conductor	
a)	Copper braid silvered wires
b)	
c)	
d)	
Jacket	2,5 mm FEP brown/transparent +/- 0,1
Electrical properties::	
Impedance	75 Ohm +/- 3
Capacity (pF/m)	102
Velocity (v/c)	0,7
Attenuation at 20°C (dB 100m)	
1 MHz - 3,0 5 MHz - 10,0 10 MHz - 12,0 50 MHz - 15,0 108 MHz - 21,0	300 MHz - 41,0 500 MHz - 58,0 800 MHz - 78,0 1000 MHz - 90,0
Direct current resistance (Ohm/km)	Inner conductor: 784 Outer conductor: 56
Mechanical properties:	
Minimum bending radius	10 mm
Cable weight kg/km	+/- 15
Copper weight kg/km	+/- 6,2
Range of temperature C°	-50 bis + 200

LOUDSPEAKERCABLE

SYTRONIC Loudspeaker cables: really **not** a run-of-the-mill product! The role of the cable is very decisive. This is especially the case with audio cables. It is important to use only the very best materials in order to warrant a perfect listening enjoyment.

We achieve superb transmission and conductivity properties through the utilization of highly pure, low-oxygen litzendraht copper wires. The underlying principle is: the finer the wires, the more flexible is the line and, consequently, the larger is the total surface of the line (skin effect); very important in the use of high-frequency speakers. The litzendraht copper wires are, on principle, stranded against each other, which avoids a spiral effect.

RoHS Konform

CE

LOUDSPEAKERCABLE

Standard (0,20 mm – single wire)

Building:					
Cross section	**2 x 0,75 mm²**	**2 x 1,50 mm²**	**2 x 2,50 mm²**	**2 x 4,0 mm²**	**2 x 6,00 mm²**
Construction of conductor	24 x 0,20 mm	48 x 0,20 mm	78 x 0,20 mm	126 x 0,20 mm	189 x 0,20 mm
Jacket Colour:	PVC tr, wh, bl, br, grey	PVC tr, white, black	PVC tr, white, black	PVC tr, white, black	PVC tr
Dimensions aprox.	2,35 x 4,9 mm	2,8 x 5,8 mm	3,6 x 7,4 mm	4,5 x 9,7 mm	6,1 x 12,5 mm
Weight of copper/ km	14 kg	30 kg	50 kg	80 kg	120 kg
Weight/ km	23 kg	42 kg	60 kg	105 kg	141 kg
Electrical properties:					
Electric srength (at 50 Hz eff over 1 minute)	1 KV	1 KV	1 KV	1 KV	1 KV
Insulating resistance (min. at 20 C°)	20 MOhm x km	20 MOhm x km	20 MOhm x km	20 MOhm x km	20 MOhm x km
Conductor Resistance (max. at 20 C°)	26,00 Ohm / km	13,30 Ohm / km	7,98 Ohm / km	4,95 Ohm / km	3,3 Ohm / km
Operating voltage (max.)	50/75 V AC/DC	50/75 V AC/DC	50/75 V AC/DC	50/75 V AC/DC	50/75 V AC/DC
Range of temperature: Stationary On the move	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°

Flexible (0,15 mm – single wire)

Building:					
Cross section	**2 x 1,50 mm²**	**2 x 2,50 mm²**	**2 x 4,00 mm²**	**2 x 6,00 mm²**	**2 x 10,00 mm²**
Construction of conductor	82 x 0,15 mm	140 x 0,15 mm	224 x 0,15 mm	336 x 0,15 mm	560 x 0,15 mm
Jacket Colour:	PVC tr	PVC tr	PVC tr	PVC tr	PVC tr
Dimensions aprox.	2,8 x 5,8 mm	3,6 x 7,4 mm	4,5 x 9,7 mm	6,1 x 12,5 mm	7,0 x 15,00 mm
Weight of copper/ km	30 kg	50 kg	80 kg	120 kg	200 kg
Weight/ km	42 kg	60 kg	105 kg	141 kg	252 kg
Electrical properties:					
Electric srength (at 50 Hz eff over 1 minute)	1 KV	1 KV	1 KV	1 KV	1 KV
Insulating resistance (min. at 20 C°)	20 MOhm x km	20 MOhm x km	20 MOhm x km	20 MOhm x km	20 MOhm x km
Conductor Resistance (max. at 20 C°)	13,30 Ohm / km	7,98 Ohm / km	4,95 Ohm / km	3,3 Ohm / km	1,95 Ohm / km
Operating voltage (max.)	50/75 V AC/DC	50/75 V AC/DC	50/75 V AC/DC	50/75 V AC/DC	50/75 V AC/DC
Range of temperature: Stationary On the move	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°

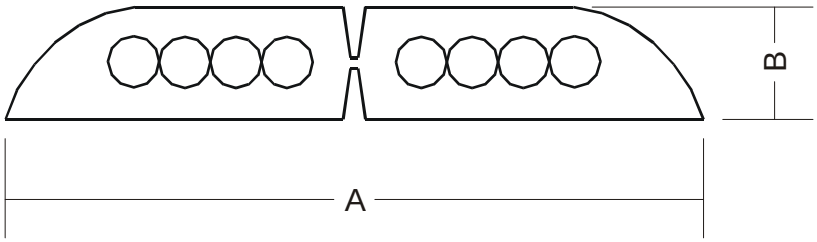
High flexible (0,10 mm – single wire)

Building:					
Cross section	**2 x 1,50 mm²**	**2 x 2,50 mm²**	**2 x 4,00 mm²**	**2 x 6,00 mm²**	**2 x 10,00 mm²**
Construction of conductor	189 x 0,10 mm	322 x 0,10 mm	511 x 0,10 mm	777 x 0,10 mm	1260 x 0,10 mm
Jacket Colour:	PVC tr	PVC tr	PVC tr	PVC tr	PVC tr
Dimensions aprox.	2,8 x 5,8 mm	3,6 x 7,4 mm	4,5 x 9,7 mm	6,1 x 12,5 mm	7,0 x 15,00 mm
Weight of copper/ km	30 kg	50 kg	80 kg	120 kg	200 kg
Weight/ km	42 kg	60 kg	105 kg	141 kg	252 kg
Electrical properties:					
Electric srength (at 50 Hz eff over 1 minute)	1 KV	1 KV	1 KV	1 KV	1 KV
Insulating resistance (min. at 20 C°)	20 MOhm x km	20 MOhm x km	20 MOhm x km	20 MOhm x km	20 MOhm x km
Conductor Resistance (max. at 20 C°)	13,30 Ohm / km	7,98 Ohm / km	4,95 Ohm / km	3,3 Ohm / km	1,95 Ohm / km
Operating voltage (max.)	50/75 V AC/DC	50/75 V AC/DC	50/75 V AC/DC	50/75 V AC/DC	50/75 V AC/DC
Range of temperature: Stationary On the move	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°

LOUDSPEAKERCABLE
FLAT HIGHFLEXIBLE

We do not have to hide our cables, but there are occasions where they should be out of sight.

This product is very flat and flexible and can be laid, as a consequence, without any problems underneath carpets. It can also be fastened on walls and painted over or hidden behind trim strips.



(0,10 mm – single wire)

Building:			
Cross section	**2 x 1,50 mm²**	**2 x 2,50 mm²**	**2 x 4,00 mm²**
Construction of conductor	47 x 4 x 0,10 mm	80 x 4 x 0,10 mm	125 x 4 x 0,10 mm
Jacket Colour:	PVC White	PVC white	PVC white
Dimensions aprox.	A: 12,8 mm B: 2,4 mm	A: 14,6 mm B: 2,6 mm	A: 17,5 mm B: 3,0 mm
Weight of copper/ km	30 kg	50 kg	80 kg
Weight/ km	42 kg	60 kg	105 kg
Electrical properties:			
Electric srength (at 50 Hz eff over 1 minute)	1 KV	1 KV	1 KV
Insulating resistance (min. at 20 C°)	20 MOhm x km	20 MOhm x km	20 MOhm x km
Conductor Resistance (max. at 20 C°)	13,30 Ohm / km	7,98 Ohm / km	4,95 Ohm / km
Operating voltage (max.)	50/75 V AC/DC	50/75 V AC/DC	50/75 V AC/DC
Range of temperature: Stationary On the move	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°	 -30 to + 70 C° -10 to + 70 C°

RoHS Konform

CE

SPECIALCABLE

The cables and lines stated in this catalogue represent our standard manufacturing program of the most usual types which we produce regularly and which are, as a consequence, always available and in stock.

In many cases, however, this is not sufficient, and a special solution must be found. We can very often assist you in this respect. Also on account of our affiliation to the “Wilms Cable Group” with 12 additional sister companies, we have many possibilities to assist you:

- ***Combination cable / hybrid cable***
- ***Special requests for sheathing material or cable colour***
- ***A cable composition according to the requests of the customer***
- ***Printing on the sheathing material according to the requests of the customer***

Please contact us with your requests for tailor-made quotations. We will submit our quotation for orders of a certain minimum quantity, depending on the type of cable involved.

COMPRESSION-CONNECTORS SERIES F

The best possibility at the moment to connect a coax cable failure free is using high class connectors series “F”.

- ***Simply and quick install***
- ***Professional quality***
- ***High holding force***
- ***Very good screening***
- ***100 % waterproof***

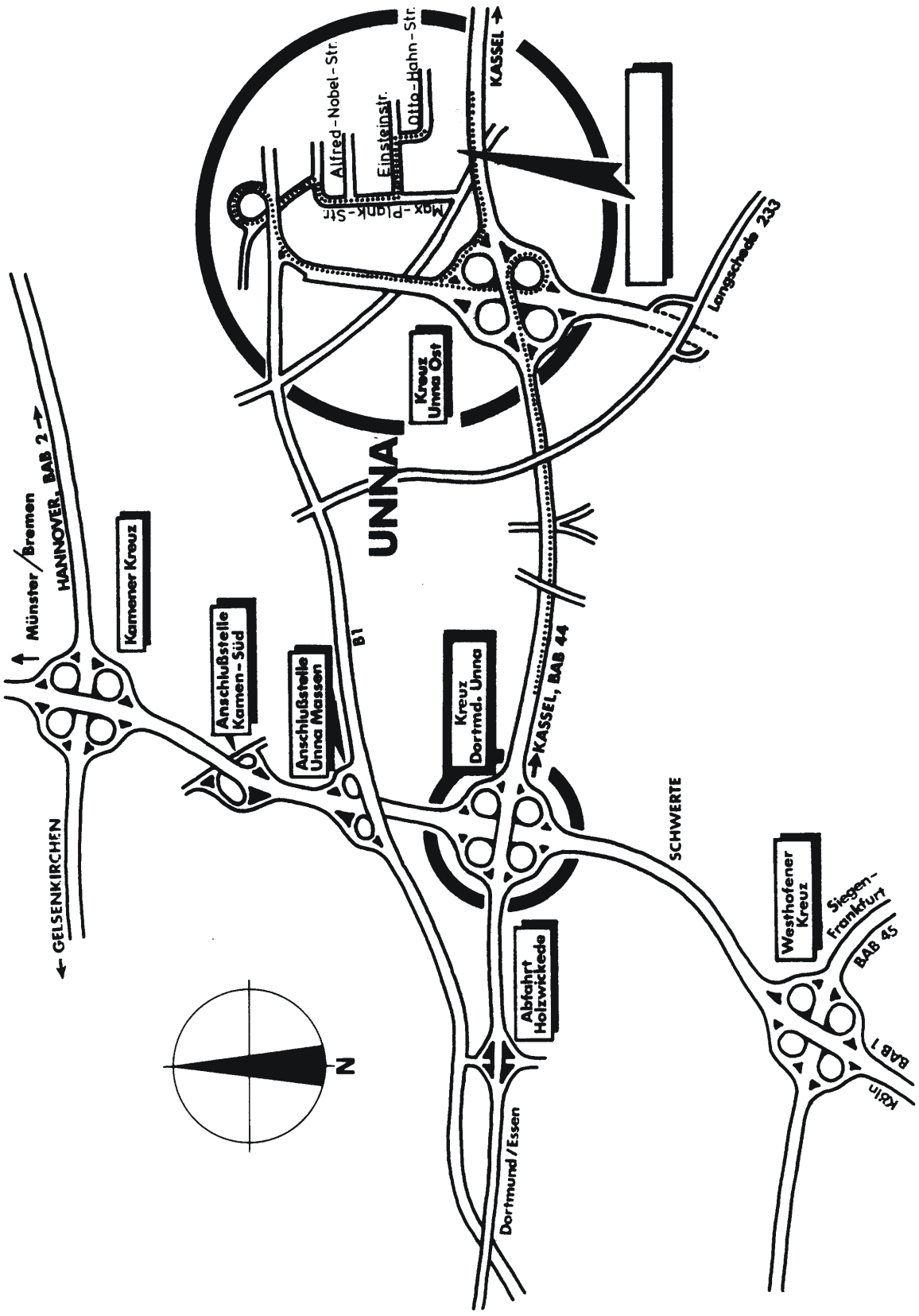
Here is a listing about the most popular connectors and makes.

	CABLECON	**PPC**	**THOMATS & BETTS**
SYTRONIC cable type:			
75040 AFS (0.4/2.6)		CMP MC 30	
75065 AFZ (0.7/2.9) 75 dB		CMP MC 32	
75065 AFZ (0.7/2.9) 90 dB		CMP MC 32 pink	
75075 AFZ (0.75/3.4)	F-59-CX3 3.7	EX 59-39/79	
75065 AF (0.65/3.7)	F-59-CX3 3.9		SNS1 P59
75070 AF (0.7/4.4)		CMP 6-49/ EX 6-49	
75075 AF (0.75/4.8)	F-56-CX3 5.1	CMP 6-51/ EX 6-51	SNS 651
75080 AFZ 4-S (0.8/3.7) 100 dB	F-59-CX3 3.9	EX 59-39	SNS1 P59
75100 AFZ (1.0/4.5) 75 dB	F-56-CX3 4.9	CMP 6-49/ EX 6-49	SNS1 P6QS
75100 AFZ 3-S (1.0/4.6) 100 dB/ 110 dB	F-56-CX3 4.9	CMP 6-49/ EX 6-49	SNS1 P6QS
75100 AFZ 4-S (1.0/4.6) 105 dB/ 120 dB	F-56-CX3 4.9	CMP 6-49/ EX 6-49	SNS1 P6QS
75110 AFZ (1.1/5.0) 75 dB	F-56-CX3 5.1	CMP 6-51/ EX 6-51	SNS 651
75110 AFZ (1.1/5.0) 90 dB 1 GHz / 3 GHz	F-56-CX3 5.1	CMP 6-51/ EX 6-51	SNS 651
75110 AF (1.1/7.3) 75 dB			SNS 11ASZ
75160 AF (1.6/7.3) 75 dB/ 90 dB		EX 11	SNS 11ASZ
75160 AF 4-S (1.6/7.3) 120 dB		EX 11	SNS 11ASZ
75060 V (0.6/3.7)	F-59-CX3 3.9	EX 59	SNS1 P59
75060 V/Dz (0.6/3.7Dz)	F-59-CX3 3.9	EX 59	SNS1 P59
75060 Vz (0.6/2.8)		CMP MC 30	
RG 59/B/U	F-59-CX3 3.9	EX 59	SNS1 P59

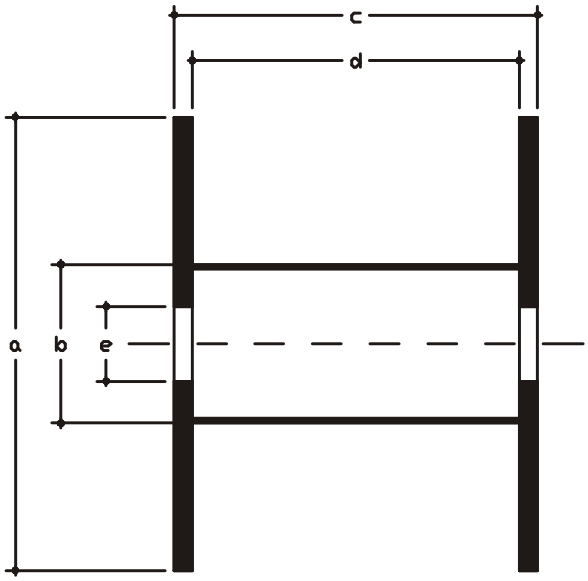
The connectors and adequate tools you can order at Sytronic. Please give us an inquiry.

Errors and subsequent changes can not be excluded.

THE WAY YOU CAN FIND US



REEL AND DRUM DIMENSIONS



Trommelabmessung/ Kabelbezeichnung	Kunststoff-spule klein	Kunststoff-spule mittel	Kunststoff-spule gross	Kunststofftro. Deizenberger	Pappspule klein	Pappspule mittel	Pappspule gross	Hartfaser-trommel	Holztrommel 4er Einweg	Holztrommel 5er Einweg	Holztrommel 7er KTS	Holztrommel 8er KTS
drum-size / cable-type	plastic reel small	plastic reel medium	plastic reel large	plastic reel Deizenberger	card board reel small	card board reel medium	card board reel large	hard board drums	one way plywood drums	one way plywood drums	returnable wood drums	returnable wood drums
Flansch a [mm]	150	200	275	310	210	300	300	300	400	500	710	800
Kern b [mm]	60	70	120	160	80	80	80	100	150	150	355	400
Breite ins. c [mm]	100	160	185	165	106	106	226	250	320	430	510	510
Wickelbreite d [mm]	93	152	177	150	100	100	220	235	300	410	400	400
Bohrung e [mm]	22	33	33	30	30	30	30	30	55	55	80	80
75022 AF	-	100	300	300	50	200	300	500	500	1000	-	4000
75040 AFZ	-	100	500	500	100	300	500	500	500	1500	-	5000
75040 AFS	-	100	500	500	100	300	500	500	500	1500	-	5000
75065 AF	-	100	250	250	50	100	250	300	500	1000	3000	3000
75070 AF	-	-	200	200	50	100	200	300	500	1000	2000	2500
75075 AF	-	-	150	150	50	100	200	250	500	1000	-	2500
75075 SAFS	-	-	150	150	50	100	200	250	500	1000	-	2500
75065 AFZ MINI	-	100	300	300	50	200	300	500	500	1500	-	4000
75065 AFZ TWIN	-	-	100	100	-	100	100	-	-	500	1000	-
75075 AFZ MINI	-	100	250	250	50	100	200	300	500	1000	-	3000
75075 AFZ KOMBI	-	-	100	100	-	-	100	100	-	500	1000	-
75075 AFZ TWIN	-	-	100	100	-	-	100	100	-	500	1000	-
75100 AFZ	-	-	200	200	50	100	200	300	500	1000	2000	2500
75110 AFZ	-	-	150	150	50	100	200	250	500	1000	-	2500
75110 AF	-	-	-	-	-	-	-	-	-	500	1000	-
75160 AF	-	-	-	-	-	-	-	-	-	500	1000	-
RG 58/U	-	100	300	300	50	200	300	500	500	1000	3000	4000
RG 58/C/U	-	100	300	300	50	200	300	500	500	1000	3000	4000
RG 8/U	-	-	-	-	-	-	-	-	-	500	1000	-
RG 214/U	-	-	-	-	-	-	-	-	-	500	-	1000
RG 223/U	-	100	250	250	50	100	200	300	500	1000	-	3000
RG 213/U	-	-	-	-	-	-	-	-	-	500	1000	-
RG 11/A/U	-	-	-	-	-	-	-	-	-	500	1000	-
RG 59/B/U	-	-	200	200	50	100	200	300	500	1000	2000	2500
75022 V	-	-	200	200	50	100	200	300	500	1000	2000	2500
75060 VZ	-	100	300	300	50	200	300	500	500	1500	-	4000
75060 V	-	-	200	200	50	100	200	300	500	1000	2000	2500
75100 V	-	-	-	-	-	-	-	-	-	500	1000	-
75100 V/D	-	-	-	-	-	-	-	-	-	500	1000	-
2 x 0,75 mm2	100	250	500	500	100	250	500	500	-	-	-	-
2 x 1,5 mm2	-	100	300	300	-	100	300	300	-	-	-	-
2 x 2,5 mm2	-	100	200	200	-	100	200	200	-	-	-	-
2 x 4,0 mm2	-	80	100	100	-	80	100	100	-	-	-	-
2 x 6,0 mm2	-	50	-	-	-	50	-	-	-	-	-	-
2 x 10,0 mm2	-	-	50	50	-	-	50	50	-	-	-	-

Alle Bespulungslängen: [m] / all length in meter!

GENERAL STANDARD TERMS AND CONDITIONS OF BUSINESS - SYTRONIC – KABEL GMBH

1. Sales Conditions

1.1 We deliver on the basis of our General Terms and Conditions of Business. Deviating purchasing conditions, even if they have not expressly been rejected by us, are not binding for us. Deviating purchasing conditions need our express confirmation in writing. A withdrawal from the contract - cancellation of an order - also in case of a possible delay of delivery on our part becomes binding only if the acceptance of the cancellation has expressly been confirmed by us in writing.

1.2 All agreements become invalid if they have not been confirmed by us in writing within 8 (eight) working days. The customer does not possess any rights for the assignment of any rights from the contract to third parties.

1.3 Any price quotations are without obligation and subject to alteration. Decisive are alone the prices stated in the confirmation of order.

1.4 The metal quotation at the stock exchange is the basis of the raw material calculation or the account for the raw materials supplied. This is established on the basis of the quotation of the non-ferrous metal processors for electrolyte copper wire bars for conducting purposes (Del Quotation). You find these values published in the economic section of the major daily newspapers.

1.5 Our prices are based on the cost relations of the purchasing costs of the raw material market at the time when the order is placed. In the case of a change of these cost relations, we will be justified to carry out subsequently an adaptation of price or, alternatively if necessary, to withdraw from the total order and/or from a part of the order.

1.6 Orders on call. The customer undertakes to determine the time for the total delivery and to inform us of this in writing if an order has been placed to be delivered on call. This also applies in the case of orders to be delivered in part consignments in certain intervals.

1.7 Orders are considered as accepted only on the condition that they have been confirmed in writing by the works of the supplier.

2. Terms of delivery

2.1 The time of delivery determines the approximate time for the dispatch of the consignment from our plant after fulfilment and the prerequisites for an undisturbed processing. In case we are prevented from carrying out delivery on account of a disturbance in the work procedure in our plant or on account of an unforeseen event or by one of our in-suppliers causing, in spite of all their reasonable care, a non-fulfilment of their supplies, then our date of delivery will be extended to an adequate extent. Our duty to supply will completely be cancelled in case the delivery becomes impossible due to these circumstances.

2.2 An agreed time of delivery begins on the day when the agreement concerning the order has been concluded in writing between the customer and the company accepting the order. A prerequisite for meeting the time limit is the complete receipt of all order documents in due time, the observation of the payment conditions agreed and all other obligations on the part of the customer, necessary for the execution of the order.

2.3 After the expiration of a time limit for the acceptance of the goods, we are no longer obliged to carry out the delivery. It is in our discretion to withdraw from the order, to demand an advance payment or to make our delivery dependent on corresponding securities if we become aware of circumstances after the conclusion of the contract which will justify our doubting the creditworthiness of the customer. We are particularly justified to execute this right if the customer fails to pay in spite of our reminder and if payment of our claim is not settled immediately or without delay by the customer, in spite of our demands having become overdue.

2.4 Dispatch. We supply for a net goods value above 1,250.00 € on the basis free home delivery or free place of the consignee, valid for the dispatch on the home market. Above 1,600.00 € net goods value, we supply free German border for a dispatch to foreign countries.

3. Payment Conditions

3.1 Invoicing is effected one day after delivery of the order or on the following working day after delivery of the order. Delivery of the order - Date of invoice. We are justified to assign the claims from our business connection.

3.2 In the case of a delay of payment or if the expiration of the credit period is neglected, we are justified to charge, without special agreement, interest in one hundred percent for comparable short-term banking loans. Independent of that, however, consequences of the delay of payment will become already at that time effective. All of our claims will become payable immediately in cash, including any bills of exchange which have not yet been honoured. The customer can no longer sell the goods which remain in our property or co-property (see Item 5: Reservation of Property), and he undertakes to provide for us securities for the amount covered. We have identical rights if we maintain justified doubts in the creditworthiness of the customer.

3.3 The payment conditions will be agreed upon with us and require our consent and confirmation in writing.

3.4 Decisive for discounting is the date of invoice. The amount for the copper value contained in the cable is not permitted to be discounted.

3.5 The customer is allowed to set off amounts only in the case of recognized counter claims or keep back any payments due.

3.6 All payments are to be carried out with debt discharging effect only by means of a transfer to the Heller Bank AG, Weberstrasse 21, 55310 Mainz, to whom we have assigned our claims from our business connections.

4. **Passage of risk.** All risks pass over to the consignee or customer as soon as the goods have been reported as being ready to be picked up or ready for shipment or have left our plant or have been taken over by the customer in our plant. This also applies in the case of a transport at no charge to the customer. If the

5. **Reservation of property.** The supplier reserves the right of property in the material supplied and in those new goods that were possibly manufactured in the course of production by means of the material supplied, pending the settlement of all claims the supplier has against the customer, also from a current account. Also in the case of conflicting purchasing terms and conditions, the transference of our goods remains subject to the reservation of our proprietary rights in the goods, pending full payment..

6. Warranty

6.1 The customer is obliged to carry out, after receipt of the goods, without delay a practical and technical checking of the incoming goods on the basis of our shipping documents. The customer cannot be released from this duty. Any expenses that are caused during further production through unchecked material at the place of the customer must be borne by the customer.

6.2 We accept a warranty for a lack of quantities guaranteed and/or for an exterior obvious defect at the goods only if a claim is made in writing within 10 (ten) working days after delivery, while stating the data of the order, consignment documents and delivery note.

6.3 The customer can submit claims, if any, on account of obvious or inherent defects of the goods or on account of the lack of guaranteed properties of the material within 12 (twelve) months, applicable from the date of the delivery note.

6.4 All demands for claims resulting from defects of the goods delivered require that the defect is reported immediately after it has been found, and that a sample of the defective goods is placed at our disposal free of charge.

6.5 We are entitled either to repair the defective goods or those goods that lack the guaranteed properties free of charge or to supply a substitute consignment. The decision will be made by us at our discretion. This obligation refers only to defects of goods where it can be proved that these goods have become unusable or their usefulness or usability has substantially been impaired due to an event incurred prior to the passing of the risks, in particular due to incorrect or defective construction, faulty material or unsatisfactory implementation.

6.6 The customer is obliged to grant us in the case of a justified claim an adequate period of time for carrying out the repair work or, if necessary, making a substitute delivery. If the customer refuses to grant this period of time, we will be released from the duty to provide a warranty or the obligation to supply.

6.7 The customer is entitled to the right of reduction, if it is not possible for us to carry out the repair work of the defective goods within an adequate period of time or if there are compelling reasons that make repair work impossible. The customer is entitled to demand a cancellation of the sales contract in case no agreement can be reached between the customer and our company regarding the amount of the reduction.

6.8 The customer is, after having made a complaint, entitled to keep payments back only on the condition that there are no doubts left about the justification of the complaint.

6.9 Claims of the customer on account of defects of the material or the lack of guaranteed properties come under the statute of limitations in any case from the time of the complaint within 12 (twelve) months.

6.10 Other claims on the part of the customer or of third parties, in particular an indemnification for cases of damage which have not been incurred at the material supplied itself or which represent consequential damage are excluded. This does not apply in cases with malice aforethought or gross negligence in which case conclusive liability applies.

6.11 Goods delivered are taken back only if this has been agreed before.

7. Liability

7.1 Unless it has been stated above differently, the supplier is liable for claims for damages on the part of the customer on account of a breach of an obligation other than by delay or impossibility, on account of a violation of duties in the course of contract negotiations and on account of actions that are not allowed, as follows:

a) The liability for injuries of persons is regulated by the operation of law.

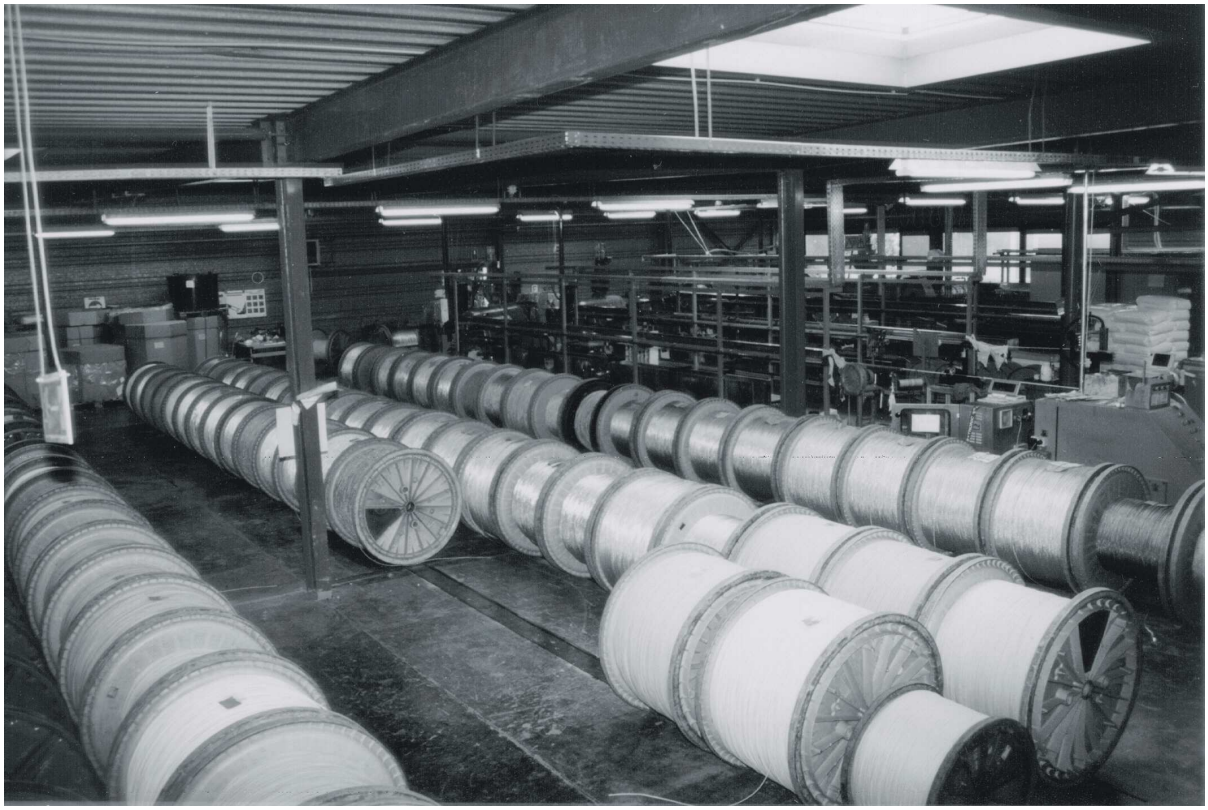
b) The liability for material damage is limited to 250,000 Euro per loss event and to a total of 500.000 Euro.

c) The liability for property damage is excluded. The limitation of liability under b) and the liability exclusion under c) do not apply as far as there is a stringent liability for damage at privately utilized articles according to the Product Liability Law or in cases of malice aforethought or gross negligence in which case conclusive liability applies

8. Place of performance and place of venue for all liabilities, also legal suits concerning bills of exchange and proceedings restricted to documentary evidence, is for both contracting parties Unna, Germany, which is the commercial seat of the Company.

9. Final provisions. The remaining legal provisions remain legally binding, even if individual contract items are or become legally invalid.

OUR MANUFACTURE IN UNNA



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