

## COAXIAL CABLES



### Most modern cable technology

Cables are like the nerve cords of a TV distribution network. DELTA, in cooperation with qualified suppliers, has put a lot of effort in developing optimal coaxial cable for different applications. For this, sensitive coherences between material usage, constructive cable design, the process parameters of manufacturing and lastly, the resulting mechanical and electrical cable characteristics needed to be reliably controlled. Multiple extruders for the purpose of physically cubicalising dielectrics, special machines for the braiding of the finely wired multi-wire shielding or electronically controlled extruders, which are sprayed under very high pressure onto the cable coating, are just some examples for this state-of-the-art manufacturing technology.

### The advantages at a glance

#### KOAX 100 ECA

- The universal house installation cable for SAT-IF, community systems and CATV
- Special shielding construction ensures excellent and low coupling resistance in the return path range, as well as good screening resistance in CATV and SAT-IF frequency range (class A according to EN 50117-2-4)
- Solid-core inner conductor ensures corrosion free F-plug connections and low DC resistance in case of 13/18V remote feeding in SAT systems
- Compact multi-wire braiding, made from 128 single wires with isolation foil for comfortable installation
- Fire behaviour classification Eca (EN 50757)
- Alloy mesh is much cheaper than copper. For house cable installation and the use of DELTA Electronics compression plugs a similarly high reliability can be expected

#### KOAX 110 A+ Eca / KOAX 115 A++ Eca

- HQ house installation cable optimised for return path capable TV distribution networks (Triple Play). Effective suppression of interference in CATV systems (ingress) and SAT-IF distributions (GSM interference). Complies fully to the compulsory EMC network limits
- Special 3 tier shielding construction ensures low coupling resistance in return path range (class A++ according to EN 50117-2-3), as well as excellent screening attenuation in CATV and SAT-IF frequency range
- Solid-core inner conductor and tinned copper braiding as outer conductor for corrosion free F-plug connections, even in damp environments
- Physically highly celled threefold PE as a dielectric ensure low attenuation and long life
- Outer shielding foil glued to jacket for comfortable cable stripping
- Inner screening foil with dielectric glued for easy installation and secure mounting of compression and crimp plugs as well as excellent screening, even after bending
- Fire behaviour classification Eca (EN 50757)
- Recommended by leading cable TV operators

#### KOAX 1610 T

- HQ coaxial cable for low resistance trunk and feed lines for inside and outside installation
- Threefold shielding, class A, especially suitable for return-path capable cable TV networks (Triple Play)
- Premium solid-copper inner conductor for corrosion free connections
- Recommended by leading cable TV operators
- Vodafone certified

#### Accessories: transport box for Koax 100 / 110 A+ / 115 A++

- KKB 280 Coax cable box for the optimal transport of the Koax 100 / 110 A+ / 115 A++ on 100m plastic spools
- Art.No. 57002071



## COAXIAL CABLES

- Highly celled gas injection dielectric (FPE) for low attenuation
- Length printed on jacket, beginning with 1m
- High reliability and durability
- Conforms to RoHS
- Orientated on standard EN 50117 ff



Type		KOAX 1610 T	KOAX 100 Eca	KOAX 110 A+ Eca	KOAX 115 A++ Eca	
Item No.	100 m / plastic spool	–	57003159	57004156	57003944	
	250 m / plastic spool	–	57003160	–	–	
	500 m / wooden barrel	57000861	57003161	57004157	57003945 (AUSLAUF)	
US classification		RG 11	RG 6	RG 6	RG 6	
Screening		triple layer	double layer	triple layer	triple layer	
Inner conductor	∅ mm	1.6 Cu	1.02 Cu	1.02 Cu	1.02 Cu	
Dielectric	∅ mm	7.11 FPE	4.6 FPE	4.6 FPE	4.6 FPE	
Jacket	∅ mm	10.0 PE (black)	6.8 PVC (white)	6.8 PVC (white)	6.8 PVC (white)	
Screening material		Al	Al	CuSn	CuSn	
Attenuation						
	5 MHz	dB	1.2	1.8	1.2	1.4
	50 MHz	dB	2.9	4.8	4.2	4.5
	100 MHz	dB	4.1	6.5	6.0	6.4
	200 MHz	dB	6.0	9.0	8.5	9.2
	400 MHz	dB	8.1	13.0	12.1	13.0
	800 MHz	dB	11.8	18.5	17.8	19.0
1600 MHz	dB	18.2	27.5	25	28.0	
2150 MHz	dB	22.1	32.5	29.5	33.2	
Loop resistance	Ohm	75 ± 3.0	75 ± 3.0	75 ± 3.0	75 ± 3.0	
Propagation velocity		84 %	82 %	82 %	82 %	
DC resistance (loop)	Ohm/m	0.022	0.05	0.037	0.037	
Bending radius	cm	10	3.5	3.5	3.5	
Return loss ratio						
	5 – 450 MHz	dB	> 30	> 26	> 30	> 30
	450 – 1000 MHz	dB	> 25	> 23	> 25	> 25
1000 – 2150 MHz	dB	> 20	> 20	> 20	> 25	
Coupling resistance						
	5 – 30 MHz	mOhm/m	–	< 5	< 1	< 0.4
Screening						
	30 – 1000 MHz	dB	110 ... 120	100	100 ... 120	125 ... 135
	1000 – 2150 MHz	dB	110	90	100	115 ... 125
Classification to EN 50117		A	A	A+	A++	
Fire behaviour classification		F <sub>ca</sub>	E <sub>ca</sub>	E <sub>ca</sub>	E <sub>ca</sub>	
F connector screw-in type		–	FC 70	FC 70	FC 70	
F connector crimp type		EX 11	EX 6-49 NT Plus	EX 6-49 NT Plus	EX 6-49 NT Plus	

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SEE HINT ON PAGE 20