

Cable Guide

Cables, Connectors & Tools
for installation of quality networks



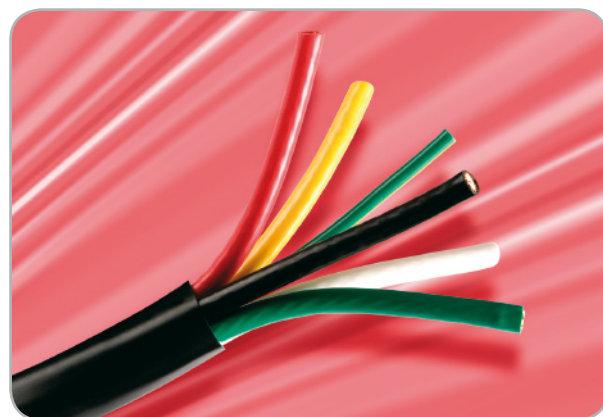
TRIAX - your ultimate connection

A Selection of the best

Triax TX Cable range optimised for digital reception

Simplification is an efficient method for installing more value at less costs in TV distribution systems.

Triax has selected the best cables, connectors and tools from leading manufacturers and the result is a relatively small number of different products covering practically every cable requirement for SMATV distribution networks.



Quality is important

The choice of cables affects network performance. Almost any cable can transmit the signals, but a quality cable ensures:

- Long lasting stability of attenuation
- Efficiently shields the signal from distortion of external electromagnetic signals
- Resists the mechanical stress, for example bending, cables are exposed to especially during installation.

GAS INJECTED DIELECTRIC

PROTECTS THE CONDUCTOR AND KEEPS IT CONCENTRIC TO THE SCREEN. COMPARED TO CHEMICAL EXPANSION, THE MODERN GAS INJECTION AND SKIN FOAM-SKIN TECHNOLOGY ADDS DURABILITY AND RESISTANCE TO BENDING AND OTHER TYPES OF MECHANICAL STRESS.

BRAID

BOTH BRAID AND SCREEN SERVES TO PROTECT THE SIGNAL FROM EXTERNAL INTERFERENCE. THE BRAID IS IN COPPER AND PROVIDES THE SCREENING.

INNER CONDUCTOR

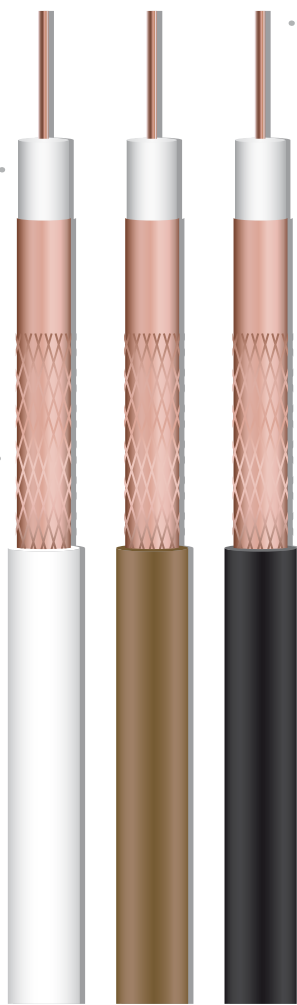
TRANSPORTS THE SIGNALS. MADE OF COPPER WITH A PURITY LEVEL EXCEEDING 99.9%

SCREEN (OUTER CONDUCTOR)

A SCREENING EFFECTIVENESS OF 75dB OR MORE IS ACHIEVED WITH A DOUBLE SCREEN COMBINING THE COPPER BRAID WITH A SCREEN IN COPPER FOIL.

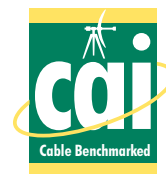
OUTER SHEATH

PROTECTS THE CABLE FROM EXTERNAL ENVIRONMENT AND IS LSF.



Triax TX cable for optimum performance

High quality metre marked shielded cables for TV distribution. TX100, TX125 and TX165 meet the requirements of the Confederation of Aerial Industries (CAI) bench marking specifications.



Technical data on TX double shielded cable

TYPE			TX 100			TX 125		TX 165			
COLOUR				BLACK	BROWN	WHITE		BLACK		BLACK	
PART NØ.	CARD REEL 100M			370750	370752	370754					
	WOOD REEL 100M							370757			
	WOOD REEL 250M			370751	370753	370755				370758	
INNER CONDUCTOR		CU					CU				CU
INNER CONDUCTOR	mm	1.0 +/- 0.02					1.25 +/- 0.03				1.63 +/- 0.1
SCREEN		CU FOIL					CU FOIL				CU FOIL
OUTER CONDUCTOR		BRAID					BRAID				BRAID
DIELECTRIC		FOAM PE					FOAM PE				FOAM PE
DIA OVER DIELECTRIC	mm	4.6					5.65				7.25
SHEATH		LSF					LSF				LSF
DIA OVER SHEATH	mm	6.55 +/- 0.3					8.0 +/- 0.4				10.1 +/- 0.3
TOTAL WEIGHT	G/M	50					62				81
BENDING RADIUS	mm	40					81				81
FLEXING RADIUS	mm	75		100		150					
ELECTRICAL DATA											
NOMINAL IMPEDANCE	OHM	75				75		75			
VELOCITY RATIO	%	83				83		81			
INNER DC RESISTANCE	20°C (OHMs/KM)	<26				<15		<10.5			
OUTER DC RESISTANCE	20°C (OHMs/KM)	<15				<13.5		<12			
CAPACITANCE PF/M		53				53		53			
ATTENUATION	dB/100M +/-5%										
FREQUENCY MHz											
5		1.6				1		0.8			
50		4.6				3.4		2.8			
100		6.5				5		3.8			
200		9.5				7.2		6.2			
460		15.0				11		8.5			
850		19.5				15.5		12			
1000		21.5				16.8		13			
1750		29.0				22.5		18			
2150		32.5				26		21			
SCREENING ATTENUATION	dB/100M										
FREQUENCY MHz											
30-470		>75				>75		>75			
470-862		>75				>75		>75			
862-2150		>65				>65		>65			
RETURN LOSS	dB										
FREQUENCY MHz											
5-30		>23				>23		>23			
30-470		>23				>23		>23			
470-862		>20				>20		>20			
862-2150		>18				>18		>18			

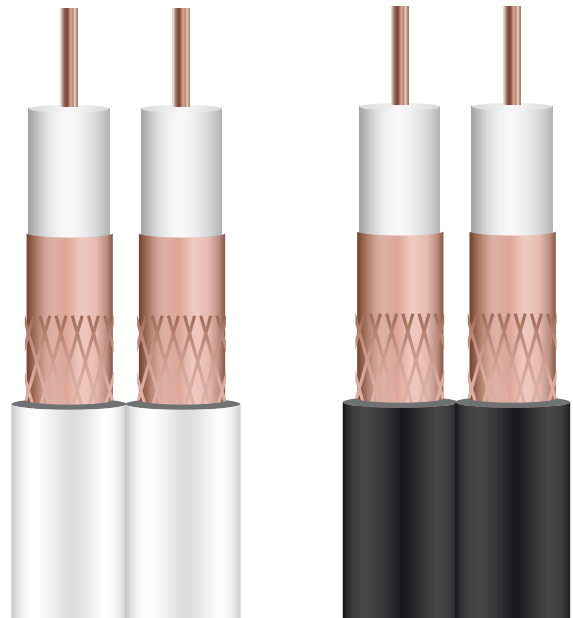
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Triax TX59 Twin cable

Technical data on TX59 twin cable

Meets the RNE22-01:2005 specification as required by BSKyB

TYPE		TX59 TWIN			
COLOUR				BLACK	WHITE
PART NO	CARD REEL 100M			370774	370776
	WOOD REEL 250M			370775	370777
INNER CONDUCTOR - BONDED COPPER					
CONDUCTOR DIA. (+/-0.02MM)	0.65				
MIN. BREAK STRENGTH (N)	153				
INSULATION - FOAM P.E.					
INSULATION DIA. (+/-0.01MM)	2.90				
COLOUR	NEUTRAL				
CENTRICITY %	≥85				
ADHESION	20 TO 50N @ 25MM				
SHIELDING - CU/P-FOIL					
WIDTH (MM)	12				
THICKNESS	18/12µm				
FOIL OVERLAP (MM)	≥2				
OUTER CONDUCTOR - BC WIRE BRAID					
CONDUCTOR DIA. (+/-0.01MM)	0.120				
NO. OF WIRES	96				
COVERAGE (+/-3%)	85%				
PICKS/DM	29.0				
LAY LENGTH (MM)	27.2				
JACKET - PVC					
OUTER DIA. (+/-0.01MM)	4.60				
COLOUR	BLACK,WHITE				
TENSILE STRENGTH	≥12.5 N/MM ²				
ELONGATION AT BREAK	≥ 150%				
MIN. BENDING RADIUS					
INSTALLATION	14.5MM				
REPEATED	46MM				
MAX. PULLING TENSION					
	211.6 N				
CRUSH RESISTANCE OF CABLE (LOAD 700N)	< 1%				
RATED TEMPERATURE					
STORAGE / OPERATING TEMPERATURE	-20 to +75°C				
OUTDOOR INSTALLATION	-5°C				
CHARACTERISTIC IMPEDANCE					
	75 ±3 OHM				
CAPACITANCE	52 ±3 PF/M				
VELOCITY RATIO	<84 %				
DCR: INNER CONDUCTOR	<55 OHM/KM				
DCR: OUTER CONDUCTOR	<16 OHM/KM				
JACKET SPARKER	2500 VCA				
DIELECTRIC STRENGTH	1000 VCA				
RETURN LOSS					
5-1000 MHZ	23DB				
1000-2200 MHZ	18DB				
INSULATION RESISTANCE					
	>100,000 MΩ-KM				
TRANSFER IMPEDANCE					
5-30 MHZ	≤15 MΩ-KM				
SHIELDING EFFECTIVENESS					
100-3000 MHZ	>85 dB				
FREQUENCY (AT 20°C)					
5 MHZ	2.20				
50 MHZ	6.20				
100 MHZ	8.90				
200 MHZ	12.80				
460 MHZ	19.70				
850 MHZ	27.40				
1000 MHZ	29.60				
1750 MHZ	39.70				
2150 MHZ	44.90				
CADMIUM CONTENT					
	<0.1%				
LEAD CONTENT					
	<0.1%				
MERCURY CONTENT					
	<0.1%				
CHROMIUM (VI) CONTENT					
	<0.1%				
POLYBROMINATED BIPHENYLS (PBB)					
	FORBIDDEN				
POLYBROMINATED DIPHENYL ETHER (PBDE)					
	FORBIDDEN				



Triax TX100 5 core colour coded cable

Technical data on TX100 5 core cable

TYPE		TX100 5 CORE			
COLOUR				BLACK	BROWN
PART NO	WOOD REEL 100M			370759	370772
	WOOD REEL 50M			370756	370773
		COAX CORE	EARTH	OUTER	
INNER CONDUCTOR		CU			
INNER CONDUCTOR	mm	1.0 +/- 0.02	80 X0.18		
SCREEN		CU FOIL			
OUTER CONDUCTOR		BRAID			
DIELECTRIC		FOAM PE			
DIA OVER DIELECTRIC	mm	4.6	4.0		
SHEATH		LSF	LSF		LSF
DIA OVER SHEATH	mm	6.55 +/- 0.3			21.5 +/- 1.0
TOTAL WEIGHT	G/M				440
BENDING RADIUS	mm				265
ELECTRICAL DATA					
NOMINAL IMPEDANCE	OHM	75			
VELOCITY RATIO	%	83			
INNER DC RESISTANCE	20°C (OHMS/KM)	<26			
OUTER DC RESISTANCE	20°C (OHMS/KM)	<15			
CAPACITANCE PF/M		53			
ATTENUATION		dB/100M +/-5%			
FREQUENCY MHz					
5		1.6			
50		4.6			
100		6.5			
200		9.5			
460		15.0			
850		19.5			
1000		21.5			
1750		29.0			
2150		32.5			
SCREENING ATTENUATION		dB/100M			
FREQUENCY MHz					
30-470		>75			
470-862		>75			
862-2150		>65			
RETURN LOSS		dB			
FREQUENCY MHz					
5-30		>23			COLOURS
30-470		>23			red / yellow / green / black / white / earth
470-862		>20			
862-2150		>18			



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Triax TX100 4 core colour coded cable

Technical data on TX100 4 core cable

TYPE		TX100 4 CORE		
COLOUR				BLACK
PART NO	WOOD REEL 100M			370779
	WOOD REEL 50M			370778
		COAX CORE		OUTER
INNER CONDUCTOR		CU		
INNER CONDUCTOR	mm	1.0 +/- 0.02		
SCREEN		CU FOIL		
OUTER CONDUCTOR		BRAID		
DIELECTRIC		FOAM PE		
DIA OVER DIELECTRIC	mm	4.6	4.0	
SHEATH		LSF	LSF	LSF
DIA OVER SHEATH	mm	6.55 +/- 0.3		19.0 +/- 1.0
TOTAL WEIGHT	G/M			300
BENDING RADIUS	mm			237.5
ELECTRICAL DATA				
NOMINAL IMPEDANCE	OHM	75		
VELOCITY RATIO	%	83		
INNER DC RESISTANCE	20°C (OHMS/KM)	<26		
OUTER DC RESISTANCE	20°C (OHMS/KM)	<15		
CAPACITANCE PF/M		53		
ATTENUATION	dB/100M +/-5%			
FREQUENCY MHz				
5		1.6		
50		4.6		
100		6.5		
200		9.5		
460		15.0		
850		19.5		
1000		21.5		
1750		29.0		
2150		32.5		
SCREENING ATTENUATION	dB/100M			
FREQUENCY MHz				
30-470		>75		
470-862		>75		
862-2150		>65		
RETURN LOSS	dB			
FREQUENCY MHz				
5-30		>23		COLOURS
30-470		>23		red / yellow / black / green
470-862		>20		
862-2150		>18		

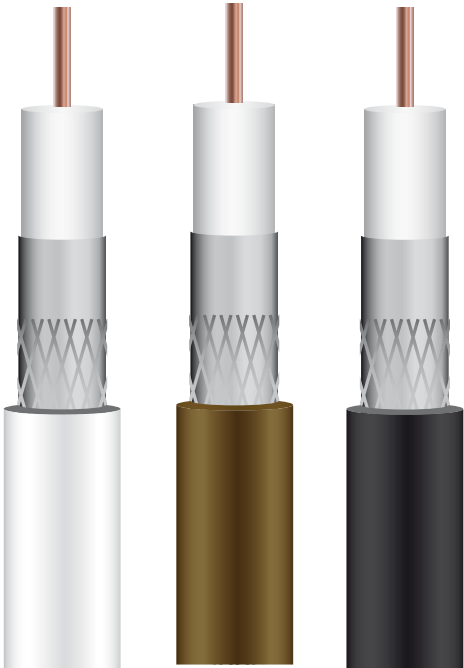


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Triax RG6 cable

Technical data on RG6 cable

TYPE		RG 6/U			
COLOUR			BLACK	WHITE	BROWN
PART NO	CARD REEL 100M		370765	370767	370769
	WOOD REEL 250M		370766	370768	370770
INNER CONDUCTOR - CCS					
CONDUCTOR DIA. (+/-0.02MM)	1.020				
MIN. BREAK STRENGTH (N)	640				
INSULATION - FOAM P.E.					
INSULATION DIA. (+/-0.01MM)	4.60				
COLOUR	NEUTRAL				
CENTRICITY %	≥85				
ADHESION	10 TO 100N @ 25MM				
SHIELDING					
WIDTH (MM)	17				
THICKNESS AL-PET foil (Bonded)	17/12µm				
FOIL OVERLAP (MM)	≥2				
OUTER CONDUCTOR - AL WIRE BRAID					
CONDUCTOR DIA. (+/-0.01MM)	0.120				
NO. OF WIRES	64				
COVERAGE (+/-3%)	40				
PICKS/DM	20.0				
LAY LENGTH (MM)	40				
JACKET - PVC					
OUTER DIA. (+/-0.01MM)	6.50				
COLOUR	BLACK, WHITE, BROWN				
TENSILE STRENGTH	≥12.5 N/MM²				
ELONGATION AT BREAK	≥ 150%				
MIN. BENDING RADIUS					
INSTALLATION	27.4MM				
REPEATED	75.5MM				
MAX. PULLING TENSION		470 N			
CRUSH RESISTANCE OF CABLE (LOAD 700N)	< 1%				
RATED TEMPERATURE					
STORAGE / OPERATING TEMPERATURE	-20 to +75°C				
OUTDOOR INSTALLATION	-5°C				
CHARACTERISTIC IMPEDANCE		75 ±3 OHM			
CAPACITANCE	52 ±1 PF/M				
VELOCITY RATIO	<82 %				
DCR: INNER CONDUCTOR	<102 OHM/KM				
DCR: OUTER CONDUCTOR	<60 OHM/KM				
JACKET SPARKER	2500 VCA				
DIELECTRIC STRENGTH	1000 VCA				
RETURN LOSS					
5-1000 MHZ	23dB				
1000-2200 MHZ	18dB				
INSULATION RESISTANCE		>100,000 MΩ-KM			
SHIELDING EFFECTIVENESS					
100-1000 MHZ	>75 dB				
FREQUENCY (AT 20°C)		MAX ATTENUATION dB/100m			
5 MHZ	1.60				
50 MHZ	4.60				
100 MHZ	6.50				
200 MHZ	9.50				
460 MHZ	15.00				
850 MHZ	19.50				
1000 MHZ	21.50				
1750 MHZ	29.00				
2150 MHZ	32.50				
2200 MHZ	33.00				
3000 MHZ	39.00				
CADIUM CONTENT		<0.1%			
LEAD CONTENT		<0.1%			
MERCURY CONTENT		<0.1%			
CHROMIUM (VI) CONTENT		<0.1%			
POLYBROMINATED BIPHENYLS (PBB)		FORBIDDEN			
POLYBROMINATED DIPHENYL ETHER (PBDE)		FORBIDDEN			



Tools for professional cable installation



Tools for stripping, crimping and compressing

The most efficient and stable connection between cable and connector is obtained when crimping is done in one swift operation (no re-crimping) and with a tool in the exact size.

Triax's range of F-connector tools are easy to use and reduce stripping, crimping and mounting to a few quick and precise operations.

CRP 106H CRIMP TOOL

FOR .324" (8.2mm) AND .360" (9.2mm) ONE PIECE F-CONNECTORS AND EPA TYPICALLY USED WITH TX100 AND TX125 CABLES



CRP 106F CRIMP TOOL

FOR .324" (8.2mm) AND .475" (11.9mm) ONE PIECE F-CONNECTORS TYPICALLY USED WITH TX165 CABLES

PART NØ. 153609



CABLE CUTTER

FOR TX100, TX125 & TX165

PART NØ. 370032



COMPRESSION TOOL

UNIVERSAL TX100 / TX165 USED FOR COMPRESSION TYPE F-CONNECTORS FOR OUTDOOR USE AND ENSURES WATER RESISTANT CONNECTIONS.

PART NØ. 370031



STRIPPING TOOLS

WITH ROTARY CABLE STRIPPERS, PREPARATION OF CABLE IS REDUCED TO A SINGLE OPERATION RESULTING IN PRECISE STRIPPING IN THE DIMENSION MATCHING EXACTLY WITH THE CONNECTOR. THE NON-EXPENSIVE STRIPPING TOOLS ARE PRE-ADJUSTED FOR TX100 & TX165 CABLES RESPECTIVELY.

PART NØ. 153602



PART NØ. 153601



INSERTION TOOL (F-CONNECTORS)

THE PLASTIC HANDLE GIVES YOU A GOOD GRIP OF THE CONNECTOR AND IS MORE CONVENIENT TO WORK WITH THAN METAL TYPES OF INSERTION TOOLS. ESPECIALLY FOR ONE-PIECE AND COMPRESSION TYPE OF F-CONNECTORS.

PART NØ. 153633



CABLE SUPPORT TOOL

WHILE MOUNTING THE CONNECTOR THIS UNIQUE RUBBER TOOL GIVES YOU A GOOD GRIP OF THE CABLE, AND WITH NO RISK OF DAMAGING THE CABLE. SUPPORTS CABLES WITH DIMENSIONS 3-12mm.

PART NØ. 153634



INSERTION T-TOOL

WITH FEMALE THREAD. EFFICIENT FOR TWO-PIECE AND TWIST-ON TYPES OF F-CONNECTORS.

PART NØ. 153606



TORQUE WRENCH SPANNER

THE SPANNER ENSURES A PROPER INSTALLATION IN ACCORDANCE WITH SCTE STANDARDS, MINIMIZING THE RISK OF HEAVY SCREENING LEAKAGE. WHEN USING F-CONNECTORS OUTDOORS SCTE RECOMMENDS A TORQUE OF 3,4-5,6 Nm.

PART NØ. 153632



POCKET COMPRESSION TOOL

FOR USE WITH IEC & F-CONNECTORS TX100 CABLE.

PART NØ. 370030



TRIAx F-KEY

INDISPENSABLE TO ANYONE WORKING WITH F-CONNECTORS.

PART NØ. 153608



Connectors for drop cables

ONE-PIECE CRIMP CONNECTORS (CABELCON)

Reduces installation time as the connectors have no loose parts.
Designed for a very high degree of pull strength.

TYPE	F CRIMP	F CRIMP	F CRIMP
CABLE TYPE	TX100	TX125	TX165
PART NØ 100pcs	370011	370012	370013 (LOOSE PIN) 370014 (FIXED PIN)



WATER RESISTANT COMPRESSION TYPES FOR OUTDOOR USE (CABELCON)

The tight interface effectively seals the cable and prevents corrosion from damaging the RF shielding abilities. O-rings inside prevent moisture ingress through the interface part of the connector.

TYPE	F COMPRESSION	F COMPRESSION	F COMPRESSION
CABLE TYPE	TX100	TX125	TX165
PART NØ 100pcs	370015	370016	370017



IEC CRIMP CONNECTOR (CABELCON)

TYPE	IEC CRIMP MALE	IEC CRIMP FEMALE
CABLE TYPE	TX100	TX100
PART NØ 100pcs	370018	370019



TWIST-ON CONNECTORS (TRIAx)

TYPE	F CON	F CON
CABLE TYPE	TX100	TX59
PART NØ 100pcs	153073	-
PART NØ 25pcs	-	370001



F CRIMP CONNECTOR (TRIAx)

TYPE	F CRIMP
CABLE TYPE	TX100
PART NØ 100pcs	370020



Triax adaptors

IEC COAX CONNECTORS

TYPE	RZ 20 MALE WHITE	RZ 20 FEMALE WHITE	COAX MALE ANGLE (GREY)	COAX FEMALE ANGLE (GREY)	COAX MALE ANGLE (WHITE)	COAX FEMALE ANGLE (WHITE)	
PART NØ.	10pcs	153033	153038	153032	153035	153042	153043
							

IEC COAX CONNECTORS (HIGH SHIELDED)

TYPE	COAX MALE ANGLE	COAX FEMALE ANGLE	PLASTIC COVER WHITE	
PART NØ.	10pcs	153021	153022	153017
				



IEC ADAPTORS

TYPE	IEC MALE TO F MALE	IEC FEMALE TO F MALE	IEC MALE TO F FEMALE	IEC FEMALE TO F FEMALE	
PART NØ.	10pcs	153610	153611	153613	153614
					

F ADAPTORS

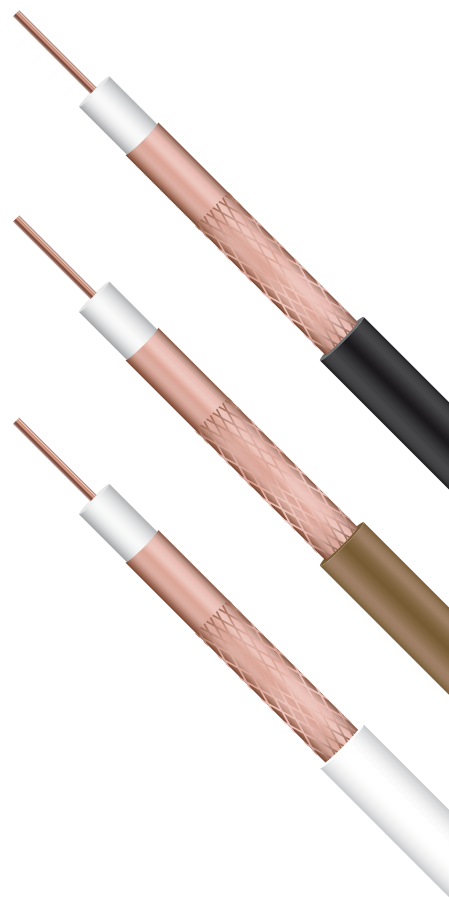
TYPE	F FEMALE TO IEC MALE	F FEMALE TO F MALE	F MALE TO F MALE	F FEMALE TO F FEMALE	
PART NØ.	10pcs	153612	153592	153596	153593
					

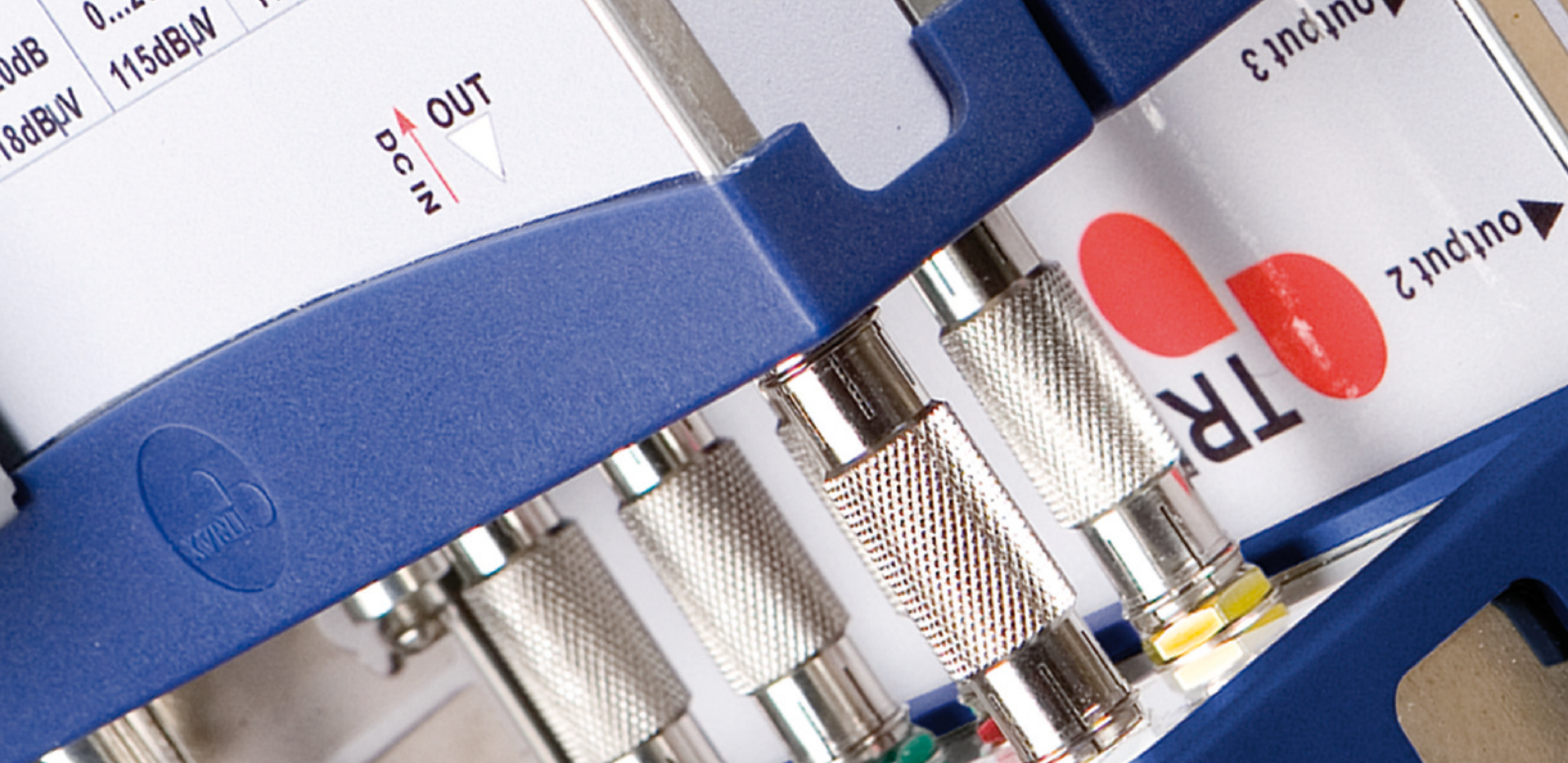
F TERMINATOR

TYPE		F MALE - R75 TERMINATOR	F MALE TO R75 (DC BLOCKED)
PART NØ.	10pcs	153054	305349
REMARKS		
			

RF TERMINATOR

TYPE		R75 - 75Ω TERMINATOR	
PART NØ.	5pcs	342503	
REMARKS	TD-OUTLETS		
.....			
			





The Ultimate Connection

for all your system requirements

The most reliable, cost efficient and flexible supplier for complete systems



TRIAX - your ultimate connection



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