



COMPTEL®

TLC & Datacom Equipment Installation components



WHO WE ARE

Compel Electronics, founded in 1972 has succeeded in becoming one of the leading European manufacturers of interconnection systems and cable assembly products.



With a solid and competitive position, achieved over the past decades, the Company has built up a reputation for technical innovation and flexibility, which has led Compel Electronics to great success in anticipating and meeting the evermore complex and demanding requests of international customers.

Compel connectors, cables and jumpers are recommended for reliable connections between various communication equipment

SUITABLE AND TESTED FOR ALL
THE MAIN CABLE TYPES AVAILABLE
ON THE MARKET



STANDARD AND SPECIAL TYPES,
ACCORDING TO CUSTOMER
REQUIREMENT

N Type
Connector



7/16 Type Connector



N Type
Connector

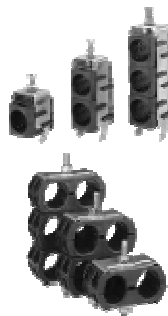


ACCESSORIES

EMP Protector



Cable Hangers



Grounding
KIT





COMPEL®

INSTALLATION PRODUCTS

RX - TX TOWERS

CORRUGATED COAXIAL CABLES



7 /16 CONNECTORS
N CONNECTORS
ANTENNA JUMPERS
ADAPTERS (in-series, between series)
LIGHTNING PROTECTORS
CABLE CLAMPS
GROUNDING KITS

ACCESS - SUB-STATIONS - BUILDINGS

COAXIAL CABLES



1.6/5.6 CONNECTORS
1.0/2.3 CONNECTORS
BNC CONNECTORS
TYPE 43 CONNECTORS
SMB
ADAPTERS (in-series, between series)
TERMINATIONS
U-LINKS
MONITORING ADAPTERS
BALUN ADAPTERS
COAX-RJ ADAPTERS
DDF BRACKETS

FIBER OPTICS



Multimode and Singlemode :
SC
FC
LC
ST
SMA
E2000



ANTENNA COAXIAL CONNECTORS

- Standard body plating: Silver

Connector Types Cable Types	N STRAIGHT PLUG P/N 	N STRAIGHT JACK P/N 	N R/ANGLE PLUG P/N 	7/16 STRAIGHT PLUG P/N 	7/16 STRAIGHT JACK P/N 	7/16 R/ANGLE PLUG P/N 	7/8" EIA FLANGE STRAIGHT P/N 
RF 50 1-5/8'' 	350.055.135	350.055.635		350.057.118	350.057.618		350.071.415
RF 50 1-1/4'' 	350.055.128	350.055.628		350.057.128	350.057.628		350.071.417
RF 50 7/8'' 	350.055.130	350.055.630	350.055.185	350.057.105	350.057.605	350.057.155	350.071.409
RF 50 1/2'' 	350.055.122	350.055.622	350.055.171	350.057.110	350.057.610	350.057.166	350.071.403
RF 50 3/8'' 	350.055.125	350.055.625	350.055.175	350.057.108	350.057.608	350.057.158	350.071.400
RF 50 1/2'' S 	350.055.118	350.055.618 350.055.730	350.055.168	350.057.100	350.057.600 350.057.726 350.057.727	350.057.162	350.071.402
RF 50 1/4'' 	350.055.126	350.055.632	350.055.176	350.057.122	350.057.172	350.057.622	
RF 50 1/4'' S 	350.055.127	350.055.627	350.055.177	350.057.125	350.057.725	350.057.175	

- Add suffix T2 to the p/n for ternary alloy

**COMPEL®**

GSM-UMTS COAXIAL ADAPTERS

	7/16 Plug	7/16 Jack	N Plug	N Jack	7/8" EIA Flange
7/16 Plug	350.057.911 	350.057.912 	350.059.973 	350.059.972 	350.059.974 
7/16 Jack	350.057.912 	350.057.910 	350.059.970 	350.059.971 	350.059.975 
N Plug	350.059.973 	350.059.970 	350.055.905 	350.055.910 	350.059.976 
N Jack	350.059.972 	350.059.971 	350.055.910 	350.055.906 	350.059.977 
7/8'' EIA Flange	350.059.974 	350.059.975 	350.059.976 	350.059.977 	



JUMPERS CABLE ASSEMBLIES

Compel p/n	Connector Type	Cable Type-Jumper Length L (m/ft)	Connector Type
350.066.707	7/16 Plug	½" Superflex 1m/3.3ft	7/16 Plug
350.066.708	7/16 Plug	½" Superflex 2m/6.6ft	7/16 Plug
350.066.709	7/16 Plug	½" Superflex 3m/9.9ft	7/16 Plug
350.066.753	7/16 Jack	½" Superflex 1m/3.3ft	7/16 Plug
350.066.755	7/16 Jack	½" Superflex 2m/6.6ft	7/16 Plug
350.066.706	7/16 Jack	½" Superflex 3m/9.9ft	7/16 Plug
350.066.711	7/16 Plug	½" Superflex 1m/3.3ft	N Plug
350.066.712	7/16 Plug	½" Superflex 2m/6.6ft	N Plug
350.066.713	7/16 Plug	½" Superflex 3m/9.9ft	N Plug
350.066.701	N Plug	½" Superflex 1m/3.3ft	N Plug
350.066.703	N Plug	½" Superflex 2m/6.6ft	N Plug
350.066.702	N Plug	½" Superflex 3m/9.9ft	N Plug
350.066.736	7/16 Plug	½" 1m/3.3ft	7/16 Plug
350.066.737	7/16 Plug	½" 2m/6.6ft	7/16 Plug
350.066.738	7/16 Plug	½" 3m/9.9ft	7/16 Plug
350.066.722	7/16 Jack	½" 1m/3.3ft	7/16 Plug
350.066.723	7/16 Jack	½" 2m/6.6ft	7/16 Plug
350.066.724	7/16 Jack	½" 3m/9.9ft	7/16 Plug
350.066.732	7/16 Plug	½" 1m/3.3ft	N Plug
350.066.733	7/16 Plug	½" 2m/6.6ft	N Plug
350.066.734	7/16 Plug	½" 3m/9.9ft	N Plug
350.066.717	N Plug	½" 1m/3.3ft	N Plug
350.066.718	N Plug	½" 2m/6.6ft	N Plug
350.066.719	N Plug	½" 3m/9.9ft	N Plug

- Any specific length or combination of connectors/cables are available on request.
- All jumpers are suitable for outdoor installation (IP68).
- Intermodulation product: ≤ -155 dBc (IMP3, 2x20W, f=1,88 GHz).
- VSWR: ≤ 1.10 (with two straight connectors) up to 2.2GHz.
(Typical): ≤ 1.14 (with two right-angle connectors) up to 2.2 GHz.



50 OHM RF CABLES

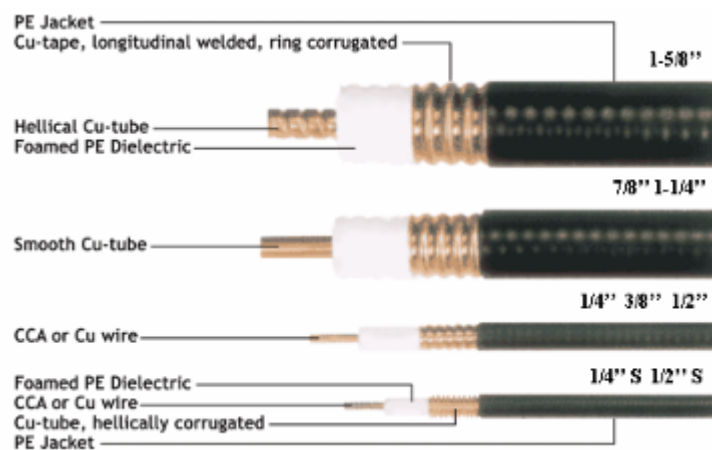
ANTENNA CABLES



- Wide application in antenna feeder systems
- Good electrical properties
- Easy use and complete range

Available types:

- Superflex FD 1/4", 1/2"
- Foam Dielectric 1/4", 3/8", 1/2", 7/8", 1-1/4", 1-5/8"



Coaxial Components for Network Equipment



**1.6 / 5.6 COAXIAL CONNECTORS**

Connector Types Cable Types	CABLE DIMENSIONS (mm)	STRAIGHT PLUG	STRAIGHT JACK	R/A PLUG	R/A JACK
ST 212	3.1 +/-0.1	350.052.435 350.052.099	350.052.603 350.052.716	350.052.164.Y1 350.052.155.Y1	350.052.776 350.052.754.Y1
ST 214	5.9 max	350.052.104	350.052.703	350.052.153.Y1	350.052.752.Y1
TCE2HHH2 (0.53/2.40)/M	3.6 +/-0.1	350.052.438	350.052.609	350.052.484	350.052.767
RG 179 B/U	2.54 +/-0.127	350.052.101 350.052.125	350.052.724 350.052.740	350.052.150.Y1 350.052.165.Y1	350.052.749.Y1 350.052.770.Y1
02Y(St)CY 0.45/2.0	3.4 +/-0.2	350.052.425	350.052.608	350.052.473	350.052.797.Y1
2YCCY 0.4/2.5	4.5 +/-0.3	350.052.103 350.052.127	350.052.702 350.052.742	350.052.151.Y1 350.052.167.Y1	350.052.750.Y1 350.052.772.Y1
BT 3002	3.55 +/-0.15	350.052.105 350.052.422	350.052.701 350.052.602	350.052.154.Y1 350.052.472	350.052.753.Y1 350.052.796.Y1
TZC 75024	3.55 +/-0.15	350.052.105 350.052.422	350.052.701 350.052.602	350.052.154.Y1 350.052.472	350.052.753.Y1 350.052.796.Y1
BT 2003	6.7 +/-0.2	350.052.097 350.052.432	350.052.711 350.052.611	350.052.149.Y1 350.052.481	350.052.650.Y1 350.052.798.Y1
RA 7000	4.5 max	350.052.437	350.052.605	350.052.483	/
RA 8000	2.75 +/-0.1	350.052.125	350.052.740	350.052.165.Y1	350.052.770.Y1
FLEX 3	3.7 max	350.052.108 350.052.126	350.052.717 350.052.741	350.052.196.Y1 350.052.166.Z1	350.052.655.Y1 350.052.771
FLEX 5	4.7 +/-0.1	350.052.103 350.052.421	350.052.702 350.052.601.Z1	350.052.151.Y1 350.052.471.Z1	350.052.750.Y1 350.052.795.Y1
TR-SP.127	3.7 +/-0.1	350.052.434	350.052.745	350.052.475	350.052.785
TR-SP.132	4.5 +/-0.15	/	/	/	/
2.5C-2V	4.0 +/-0.5	350.052.118 350.052.426	350.052.712 350.052.737	350.052.475 350.052.161.Y1	350.052.785 350.052.654.Y1
3C-2V	5.8 +/-0.5	350.052.119 350.052.427	350.052.738 350.052.713	350.052.156.Y1 350.052.476	350.052.758.Y1 350.052.786

**1.0 / 2.3 COAXIAL CONNECTORS**

Connector Types Cable Types	CABLE DIMENSIONS (mm)	STRAIGHT PLUG	STRAIGHT JACK	R/A PLUG	R/A JACK
ST 212	3.1 +/-0.1	350.064.050	350.064.131 350.064.170	350.064.450	350.064.220
ST 214	5.9 max	350.064.051	350.064.171	350.064.451	350.064.221
TCE2HHH2 (0.53/2.40)/M	3.6 +/-0.1	/	/	/	/
RG 179 B/U	2.54 +/-0.127	350.064.070	350.064.103	350.064.420	350.064.218
02Y(St)CY 0.45/2.0	3.4 +/-0.2	350.064.049	350.064.173	350.064.462	/
2YCCY 0.4/2.5	4.5 +/-0.3	350.064.080	/	350.064.467	/
BT 3002	3.55 +/-0.15	350.064.059	350.064.128	350.064.457	350.064.227
TZC 75024	3.55 +/-0.15	350.064.059	350.064.128	350.064.457	350.064.227
BT 2003	6.7 +/-0.2	350.064.052	350.064.132	/	/
RA 7000	4.5 max	350.064.076	350.064.174	350.064.454 350.064.352	/
RA 8000	2.75 +/-0.1	350.064.044	350.064.103	350.064.406	350.064.218
FLEX 3	3.7 max	350.064.063	350.064.139	350.064.480	350.064.229
FLEX 5	4.7 +/-0.1	350.064.064	350.064.164	350.064.469	/
TR-SP.127	3.7 +/-0.1	350.064.081	350.064.133	350.064.463	/
TR-SP.132	4.5 +/-0.15	/	/	/	/
2.5C-2V	4.0 +/-0.5	350.064.080	/	350.064.467	/
3C-2V	5.8 +/-0.5	/	/	/	/

**TYPE 43 COAXIAL CONNECTORS**

Connector Types Cable Types	CABLE DIMENSIONS (mm)	STRAIGHT PLUG	STRAIGHT JACK	R/A PLUG	R/A JACK
ST 212	3.1 +/-0.1	350.063.204	350.063.704	/	350.063.754
ST 214	5.9 max	/	350.063.709	/	/
TCE2HHH2 (0.53/2.40)/M	3.6 +/-0.1	/	/	/	/
RG 179 B/U	2.54 +/-0.127	350.063.203	/	/	/
02Y(St)CY 0.45/2.0	3.4 +/-0.2	350.063.210	350.063.652	/	/
2YCCY 0.4/2.5	4.5 +/-0.3	/	/	/	/
BT 3002	3.55 +/-0.15	350.063.110 350.063.201 350.063.301	350.063.700	/	350.063.756
TZC 75024	3.55 +/-0.15	350.063.110 350.063.201 350.063.301	350.063.700	/	350.063.756
BT 2003	6.7 +/-0.2	350.063.206 350.063.306	/	/	/
RA 7000	4.5 max	350.063.205	350.063.705	/	350.063.755
RA 8000	2.75 +/-0.1	350.063.203	350.063.703	/	350.063.753
FLEX 3	3.7 max	/	/	/	/
FLEX 5	4.7 +/-0.1	/	350.063.707	/	/
TR-SP.127	3.7 +/-0.1	/	350.063.710	/	/
TR-SP.132	4.5 +/-0.15	350.063.205	350.063.705	/	350.063.755
2.5C-2V	4.0 +/-0.5	350.063.208	350.063.706	/	/
3C-2V	5.8 +/-0.5	/	/	/	/



BNC COAXIAL CONNECTORS

Connector Types Cable Types	CABLE DIMENSIONS (mm)	STRAIGHT PLUG	STRAIGHT JACK	R/A PLUG	R/A JACK
ST 212	3.1 +/-0.1	350.077.100	350.077.660	350.077.200	350.077.750
ST 214	5.9 max	350.077.104	/	350.077.204	/
TCE2HHH2 (0.53/2.40)/M	3.6 +/-0.1	350.077.114	350.077.658	/	/
RG 179 B/U	2.54 +/-0.127	350.077.110	350.077.661	/	/
02Y(St)CY 0.45/2.0	3.4 +/-0.2	350.077.112	/	/	/
2YCCY 0.4/2.5	4.5 +/-0.3	350.077.102	/	/	/
BT 3002	3.55 +/-0.15	350.077.103	/	350.077.203	/
TZC 75024	3.55 +/-0.15	350.077.103	/	350.077.203	/
BT 2003	6.7 +/-0.2	/	/	/	/
RA 7000	4.5 max	350.077.113	350.077.653	/	/
RA 8000	2.75 +/-0.1	/	/	/	/
FLEX 3	3.7 max	350.077.106	/	/	/
FLEX 5	4.7 +/-0.1	350.077.115	/	/	/
TR-SP.127	3.7 +/-0.1	/	/	/	/
TR-SP.132	4.5 +/-0.15	350.077.113	350.077.653	/	/
2.5C-2V	4.0 +/-0.5	350.077.102	/	/	/
3C-2V	5.8 +/-0.5	350.077.105	/	/	/



SMB COAXIAL CONNECTORS

Connector Types Cable Types	CABLE DIMENSIONS (mm)	STRAIGHT PLUG	STRAIGHT JACK	R/A PLUG	R/A JACK
ST 212	3.1 +/-0.1	/	350.075.612	/	350.075.713
ST 214	5.9 max	/	/	/	/
TCE2HHH2 (0.53/2.40)/M	3.6 +/-0.1	/	/	/	/
RG 179 B/U	2.54 +/-0.127	350.075.110 350.075.150	350.075.614	350.075.714	/
02Y(St)CY 0.45/2.0	3.4 +/-0.2	/	/	/	/
2YCCY 0.4/2.5	4.5 +/-0.3	/	/	/	/
BT 3002	3.55 +/-0.15	350.075.111	350.075.611	/	350.075.712
TZC 75024	3.55 +/-0.15	350.075.111	350.075.611	/	350.075.712
BT 2003	6.7 +/-0.2	/	/	/	/
RA 7000	4.5 max	/	/	/	350.075.716
RA 8000	2.75 +/-0.1	/	/	/	/
FLEX 3	3.7 max	/	/	/	/
FLEX 5	4.7 +/-0.1	/	/	/	/
TR-SP.127	3.7 +/-0.1	/	/	/	/
TR-SP.132	4.5 +/-0.15	/	/	/	350.075.716
2.5C-2V	4.0 +/-0.5	/	/	/	/
3C-2V	5.8 +/-0.5	/	/	/	/

Network Components

Adapters and Monitoring connectors:

- 1,6/5,6
- 1,0/2,3
- BNC
- TYPE 43
- SMB, etc



Coaxial cable assemblies

- 1.0/2.3
- 1.6/5.6
- BNC
- SMA
- N,etc





COAXIAL ADAPTERS

Connector Types	1.6/5.6 PLUG	1.6/5.6 JACK	1.0/2.3 PLUG	1.0/2.3 JACK	BNC PLUG	BNC JACK
Connector Types						
1.6/5.6 PLUG	350.052.910 350.052.911	350.052.915 350.052.916 350.052.918	350.059.055	350.059.051 350.059.052	350.059.153	350.059.151
1.6/5.6 JACK	350.052.915 350.052.916 350.052.918	350.052.920 350.052.922 350.052.921	350.059.060 350.059.061	350.052.908	350.059.155	350.059.152
1.0/2.3 PLUG	350.059.055	350.059.060 350.059.061	350.064.572	350.064.570	/	350.059.157
1.0/2.3 JACK	350.059.051 350.059.052	350.052.908	350.064.570	350.064.555 350.064.571	350.059.156	350.059.154
BNC PLUG	350.059.153	350.059.155	/	350.059.156	/	/
BNC JACK	350.059.151	350.059.152	350.059.157	350.059.154	/	/



U-LINKS and MONITORING ADAPTERS

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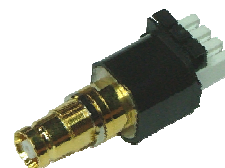
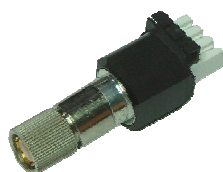
COMPEL ELECTRONICS SpA



Balun Adapters 75 / 120 Ω

Features

- ❖ Adapter 75 Ω unbalanced / 120 Ω balanced
- ❖ Frequency range: 0.05 ÷ 3 MHz (2 Mb/sec)
- ❖ Return loss according to CCITT G703
- ❖ Signal balance (120 Ω side) according to ETS 300166
- ❖ Interface conversion, using IDC technology, from 120 Ω twisted-pairs to 75 Ω coaxial connectors such as:
 - ❖ 1.0/2.3 plug
 - ❖ BNC plug
 - ❖ 1.6/5.6 plug and jack.



Coaxial Terminations

Features

- ❖ Terminations of the best known series such as:
 - ❖ 1.6/5.6 plug and jack
 - ❖ 1.0/2.3 plug and jack
 - ❖ SMA plug
 - ❖ etc.



BALUNS and TERMINATIONS

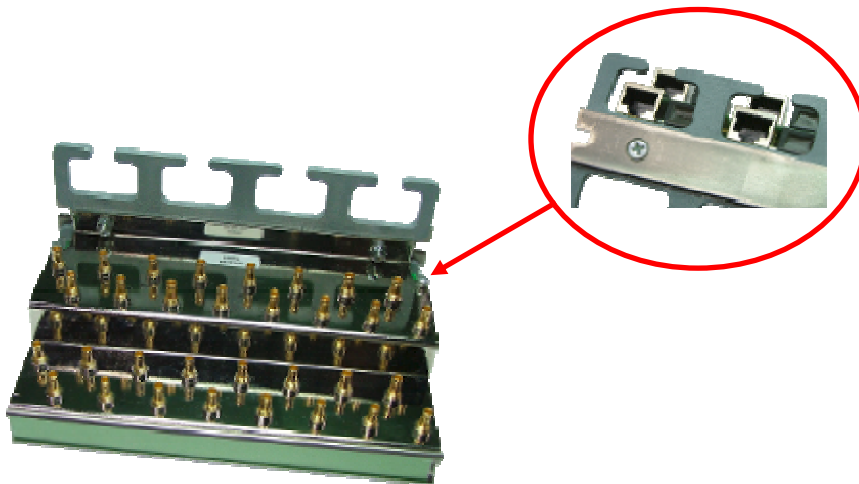
Connector Types Model	1.6/5.6	1.0/2.3	BNC	SMA	
PLUG 75/120ohm W./W. type	350.059.951	350.059.952	350.059.957	/	
JACK 75/120 ohm W./W. type	350.059.955	350.059.959	/	/	
PLUG 75/120ohm IDC type	350.059.940 350.059.954	/	/	/	
JACK 75/120 ohm IDC type	350.059.941 350.059.953	/	/	/	
PLUG 0.5W	350.052.965	350.064.965	/	/	
JACK 0.5W	350.052.960	350.064.960	/	/	
PLUG 1W	/	/	/	350.043.992	
JACK 1W	/	/	/	/	



Balun Adapters 75 / 120 Ω

Features

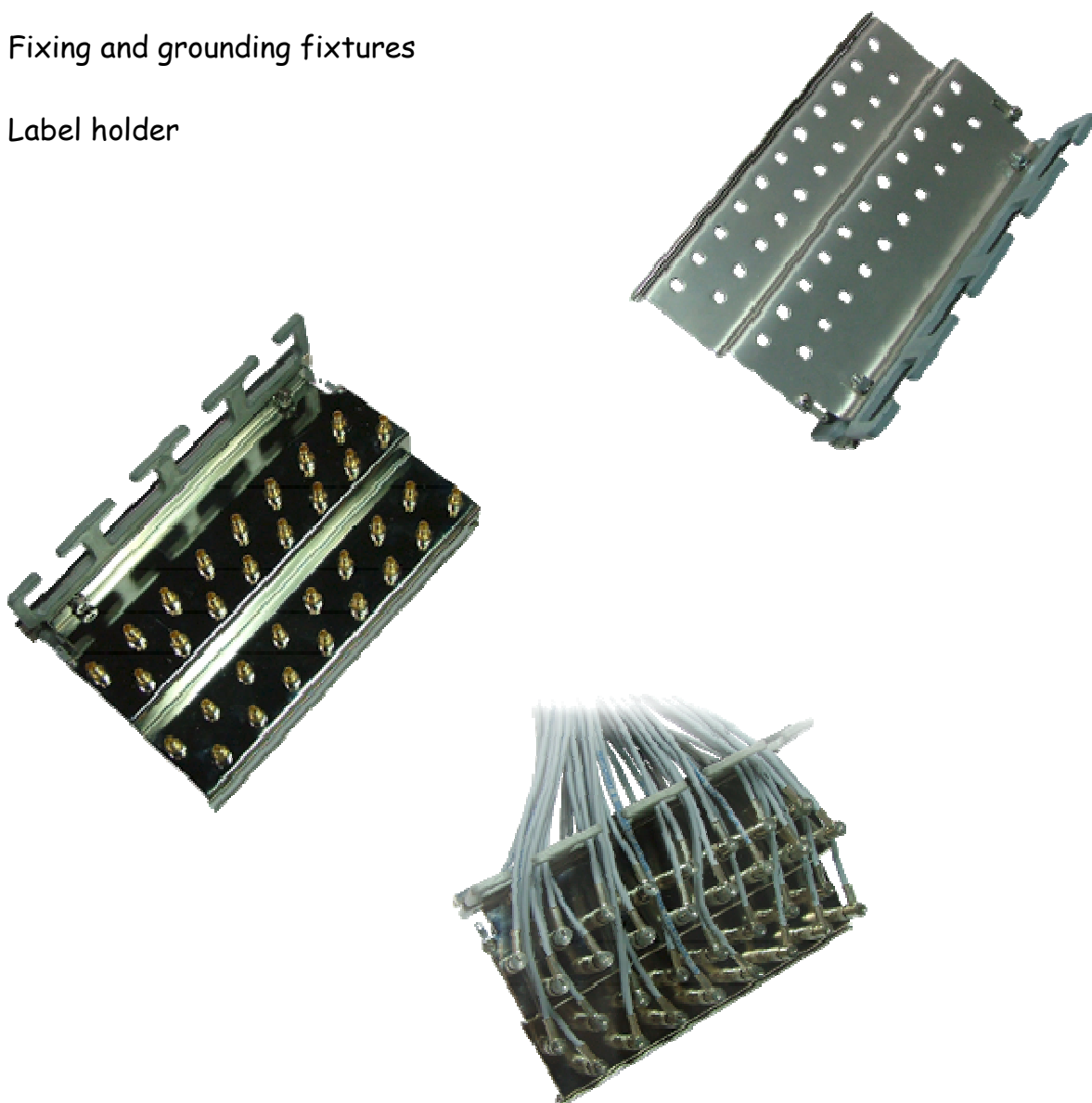
- ❖ Adapter 75 Ω unbalanced coaxial cables / 120 Ω balanced twisted pairs
- ❖ Interface conversion from 75 Ω with 1.0/2.3 female connectors to 120 Ω with RJ 45 interface
- ❖ 8 channels (G 703 E1) with monitoring jacks at 75 Ω on single decoupled paths at -20 dB
- ❖ Frequency range: 0.05÷3 MHz (2 Mb/sec)
- ❖ Signal balance (120 Ω side) according to ETS 300166
- ❖ Return loss according to CCITT G703



Holder panels

Features

- ❖ Stainless or coated steel support for 16-32 or 42 coaxial 1.0/2.3 or 1.6/5.6 connectors
- ❖ Plastic moulded cable guides/holders
- ❖ Fixing and grounding fixtures
- ❖ Label holder



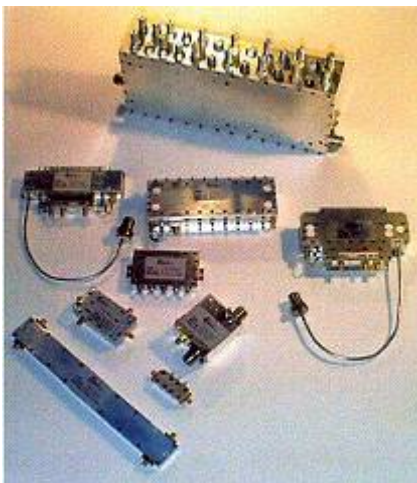


COMPEL®

Passive Components

Passive Components :

- ❖ **Splitters**
- ❖ **Filters**
- ❖ **Duplexers**
- ❖ **Semirigid cable assemblies**
- ❖ **Lightning Protectors**
- ❖ **Antenna Jumpers**
- ❖ **Antennas**





LOW PASS FILTERS

ORDERING P/N	CUT-OFF FREQUENCY	MAX VSWR	MAX INSERTION	OUT OF BAND ATTENUATION	FILTER LENGTH (mm)
363.184.001	2.5	1.3	0.25	25 dB @ 10 GHz	58
363.182.002	10	1.35	0.3	60 dB @ 15 GHz	62
363.183.001	18	1.6	0.3	70 dB @ 24 GHz	41



SPLITTERS

Ways	Ordering P/N	Insertion Loss	Isolation	D x W (mm)
2	371.110.006	≤ 3.5 dB	≥ 25 dB	26 X 32
4	371.210.003	≤ 7 dB	≥ 25 dB	53 X 51
8	371.310.002	≤ 10.5 dB	≥ 23 dB	107 x 63
12	371.410.002	≤ 14 dB	≥ 23 dB	161 x 78



COMPEL®

Fiber Optic Installation Components

CONNECTORS

OPTICAL CABLE ASSEMBLIES



ADAPTERS and ATTENUATORS



Fiber Optic Connectors

Connectors :

- ❖ FC,
- ❖ SC
- ❖ MU
- ❖ LC
- ❖ E2000
- ❖ ST, SMA



Adapters :

- ❖ FC-FC
- ❖ SC-SC
- ❖ SC-FC
- ❖ MU-MU
- ❖ HIBRID VERSION AVAILABLE





COMPEL®

Optical Cable Assemblies

Fully approved by :

- ❖ ITALIAN MINISTRY OF TELECOMMUNICATIONS
- ❖ TELEFONICA



Pigtails and Patchcords :

- ❖ MULTIMODE
- ❖ SINGLEMODE
- ❖ SIMPLEX
- ❖ DUPLEX
- ❖ MULTIFIBER





Optical Fiber Modules

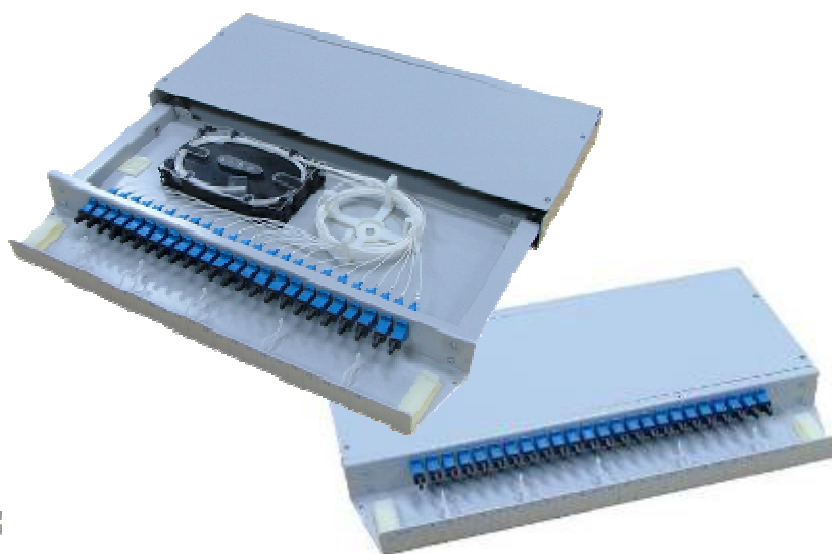
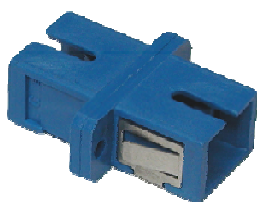
Customised options :

Features :

- ❖ 1 unit ETSI/19" front mounting
- ❖ Coated RAL7035 (light grey)
- ❖ Fixing & installation Kit included
- ❖ 24 heat shrinkable splice protection sleeves
- ❖ Cable entry from the rear or from the side
- ❖ 24 SC/SPC pigtail sets in one unit
- ❖ 24 SC/SC adapters
- ❖ Easy cable management

- ❖ Other connectors available on request
- ❖ Any other Configuration
- ❖ Other mechanical arrangements on request

Installation Kit





COMPEL®

Optical Fiber Modules

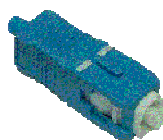
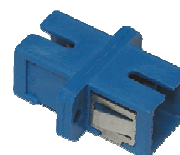
Customised options

Features

- ❖ Splice/termination box suitable for wall mounting
- ❖ Accommodates up to 8 fibres
- ❖ 8 SC/SPC pigtails and 8 SC/SC adapter sets in one unit
- ❖ PVC dust cover

❖ Other connectors available on request

❖ Several other accessories, like splice holders and heat shrinkable splice protection sleeves, are available



Kit





Accessories, tools and consumables



TOOLS:

- Extraction tool suitable for SFP LC Module

ACCESSORIES:

- Fiber cutters, fiber strippers, crimping tools



CONSUMABLES:

- Isopropil alcohol
- Wipes
- Reel and Card cleaners
- Air cleaners



COMPTEL®

MANUFACTURING TEST



Intermodulation Measurement

R & D AND QUALITY FACILITIES



Electrical



Tensile, Compression,
Bending Tests



Electronic
Microscope

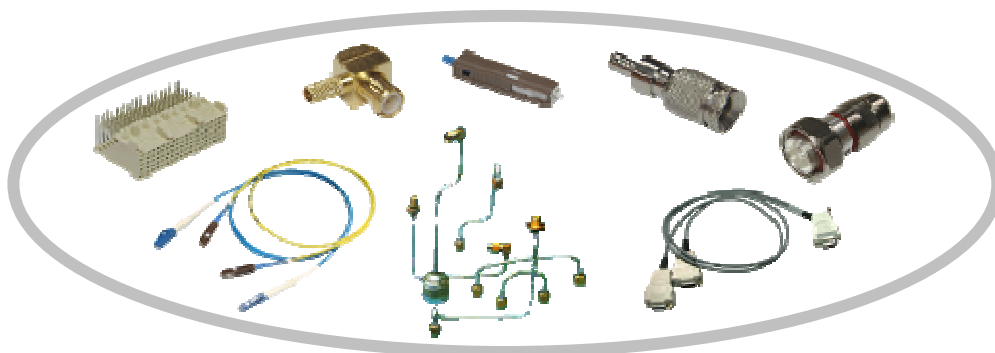


COMPTEL ELECTRONICS SpA



COMPTEL®

OTHER AVAILABLE PRODUCTS



Back Panel Line



Automatic Assembly



Electrical Test

Compel Electronics spa
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