

## Series RG

MTS Systemtechnik manufactures custom-made coaxial cable assemblies using the cable series RG for RF- and data-systems technology.

Actually our delivery program includes coaxial cables of all lengths, made of the cable types RG-142 B/U, RG-400/U, RG-174/U as well as RG-316/U etc.. The standard products are continuously enlarged. Moreover we offer a 48-hours delivery service in return for an additional price. Normally the delivery time takes about two weeks.

Generally all possible combinations of cables and connectors for cable assemblies are shown in the following table.

Special customer's wishes will be considered by our company.

### Model designation

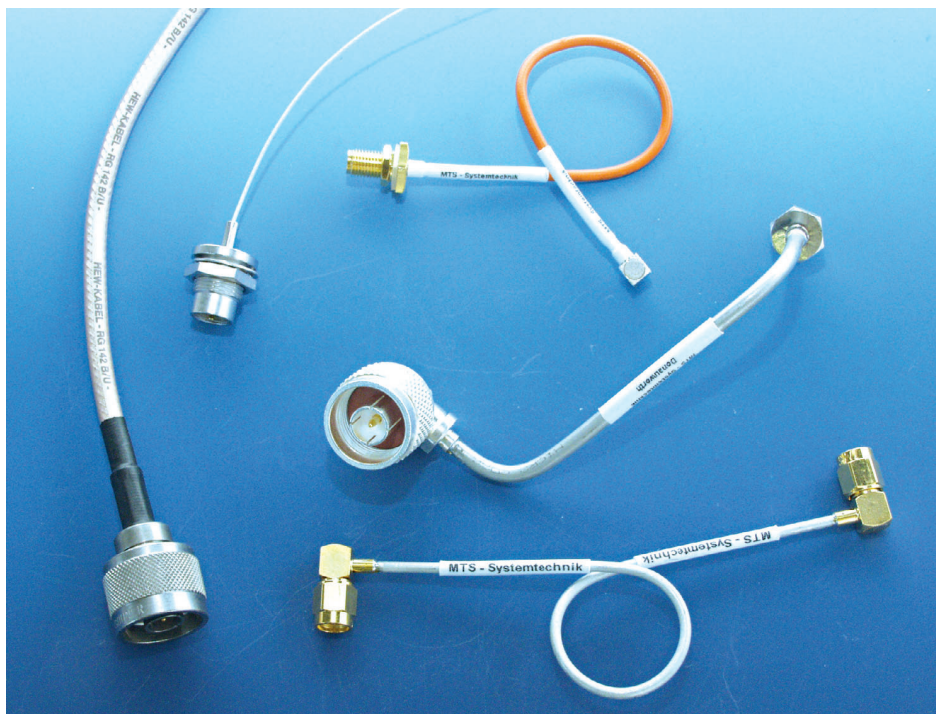
RG142 - 5 5W - 100

Length L in cm

Connector 2 (Code-no.)

Connector 1 (Code-no.)

Type of cable



### Technical data

Type of cable	Impedance $\Omega$	Inner Conductor mm	Material	$\varnothing$ mm	Insulation material	$\varnothing$ mm	Shielding material	$\varnothing$ mm	Coating material	$\varnothing$ mm	Cable group
---------------	--------------------	-----------------------	----------	------------------	------------------------	------------------	-----------------------	------------------	---------------------	------------------	----------------

#### Single shielded cable

RG 58C/U	50	19 x 0,18	CuSn	0,90	PE	2,95	CuSn	3,55	PVC	4,95	A
RG 174/U	50	7 x 0,16	CuSt	0,48	PE	1,50	CuSn	2,00	PVC	2,55	B
RG 188A/U	50	7 x 0,18	CuStAg	0,54	PTFE	1,55	CuAg	2,00	PFA	2,60	B
RG 316/U	50	7 x 0,18	CuStAg	0,54	PTFE	1,54	CuAg	2,05	FEP	2,50	B
RG 59B/U	75	0,6	CuSt	0,60	PE	3,75	Cu	4,50	PVC	6,10	C
RG 178B/U	50	7 x 0,10	CuStAg	0,30	PTFE	0,83	CuAg	1,33	FEP	1,80	D
RG 179B/U	75	7 x 0,10	CuStAg	0,30	PTFE	1,53	CuAg	2,00	FEP	2,54	F

#### Double shielded cable

RG 142B/U	50	0,95	CuStAg	0,95	PTFE	2,95	CuAg/CuAg	3,6/4,25	FEP	4,95	A
RG 223/U	50	0,89	CuAg	0,89	PE	2,95	CuAg/CuAg	3,6/4,2	PVC	5,40	A
RG 400/U	50	19 x 0,195	CuAg	1,00	PTFE	2,95	CuAg/CuAg	3,6/4,2	FEP	4,95	A
RG 214/U	50	7 x 0,75	CuAg	2,25	PE	7,25	CuAg/CuAg	8,0/8,75	PVC	10,80	E

CuAg = copper wire, silver plated

CuAg/CuAg = double shielding CuAg

CuSn = copper wire, tin-plated

CuSt = steel wire, copper-plated

CuStAg = steel wire, copper-plated, silver plated

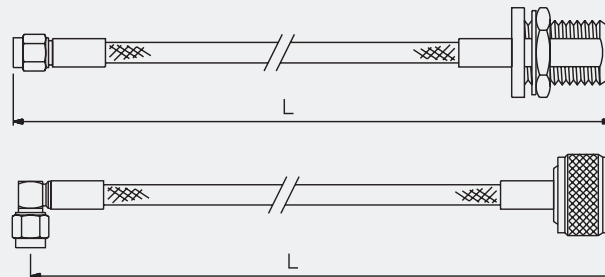
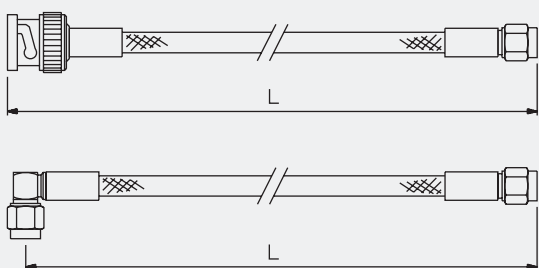
FEP = Fluorethylenpropylen

PFA = Perfluoralkoxy

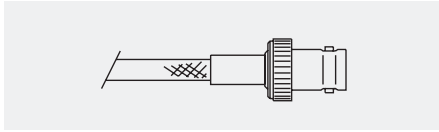
PTFE = Polytetrafluorethylen

PVC = Polyvinylchlorid

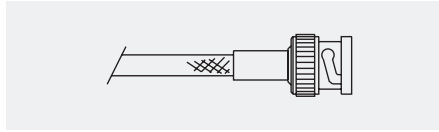
### Examples how to specify the length of a coaxial cable assembly (tolerance: $L \pm 1$ cm)



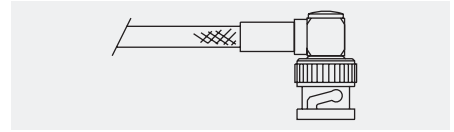
## Code-no. for cable connectors



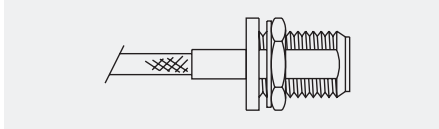
BNC female  
50  $\Omega$ , cable group A, B, D, code-no. 0  
75  $\Omega$ , cable group C, F, code-no. 0



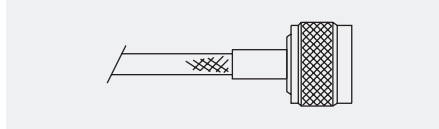
BNC male  
50  $\Omega$ , cable group A, B, D, E, code-no. 1  
75  $\Omega$ , cable group C, F, code-no. 1



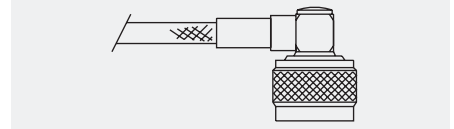
BNC male 90° angle  
50  $\Omega$ , cable group A, B, D, E, code-no. 1W  
75  $\Omega$ , cable group C, F, code-no. 1W



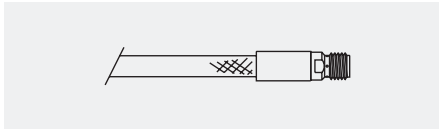
N female  
50  $\Omega$ , cable group A, E, code-no. 8



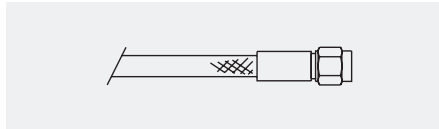
N male  
50  $\Omega$ , cable group A, B, E, code-no. 9  
75  $\Omega$ , cable group C, code-no. 9



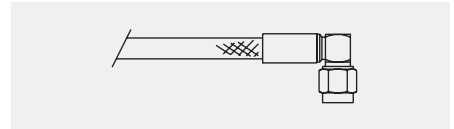
N male 90° angle  
50  $\Omega$ , cable group A, E, code-no. 9W  
75  $\Omega$ , cable group C, code-no. 9W



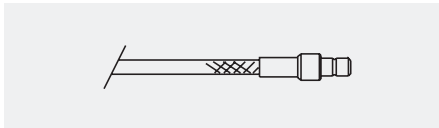
SMA female  
50  $\Omega$ , cable group A, B, code-no. 4



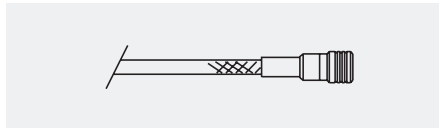
SMA male  
50  $\Omega$ , cable group A, B, code-no. 5



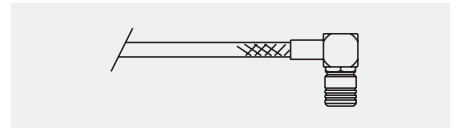
SMA male 90° angle  
50  $\Omega$ , cable group A, B, code-no. 5W



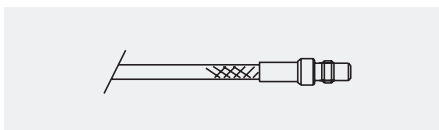
SMB female  
50  $\Omega$ , cable group B, D, code-no. A



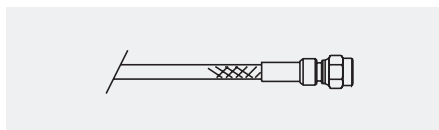
SMB male  
50  $\Omega$ , cable group B, D, code-no. B  
75  $\Omega$ , cable group C, F, code-no. B



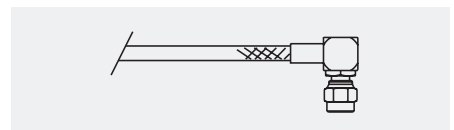
SMB male 90° angle  
50  $\Omega$ , cable group B, D, code-no. BW  
75  $\Omega$ , cable group C, F, code-no. BW



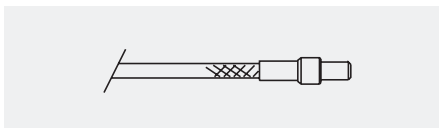
SMC female  
50  $\Omega$ , cable group B, D, code-no. C



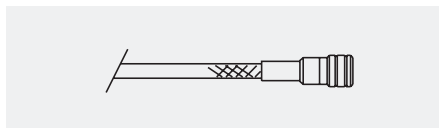
SMC male  
50  $\Omega$ , cable group B, D, code-no. D



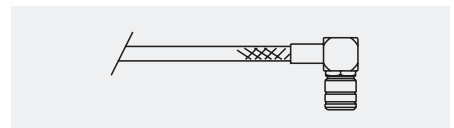
SMC male 90° angle  
50  $\Omega$ , cable group B, D, code-no. DW



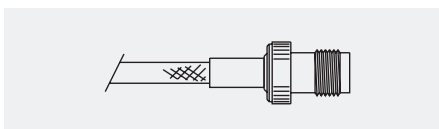
SMS female  
50  $\Omega$ , cable group B, code-no. E



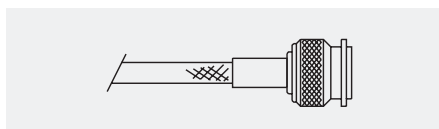
SMS male  
50  $\Omega$ , cable group B, code-no. F



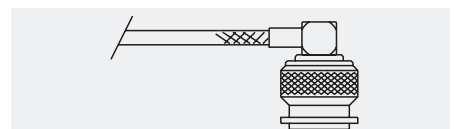
SMS male 90° angle  
50  $\Omega$ , cable group B, D, code-no. FW



TNC female  
50  $\Omega$ , cable group A, B, D, Code-No. 2  
75  $\Omega$ , cable group C, F, code-no. 2



TNC male  
50  $\Omega$ , cable group A, B, D, E, code-no. 3  
75  $\Omega$ , cable group C, F, code-no. 3



TNC male 90° angle  
50  $\Omega$ , cable group A, B, D, code-no. 3W  
75  $\Omega$ , cable group C, F, code-no. 3W