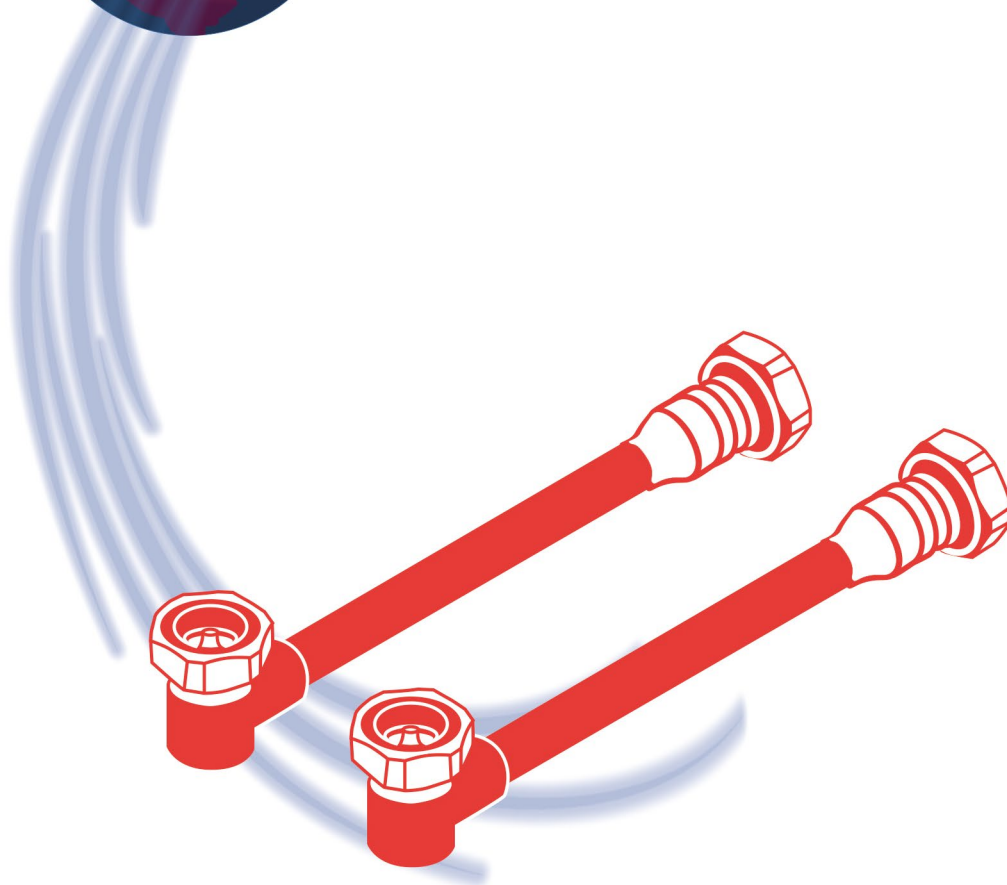


JUMPERS



=> [Search by Part Number](#)





For Telecom Antenna Connection

- ⇒ Robust soldered construction
- ⇒ Jacket overmoulded for outdoor use
- ⇒ Short delivery service
- ⇒ 100% RF Controlled
- ⇒ «5G READY» 4.3-10 & NEX10 Series
- ⇒ Low PIM Products

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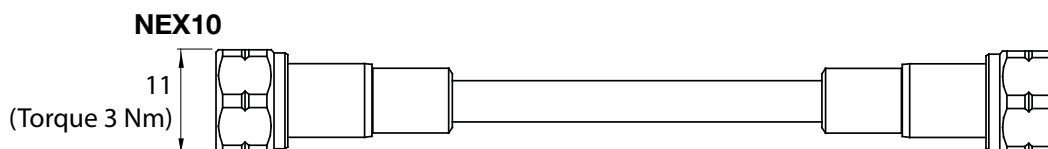
Jumper 1/4" SuperFlex Straight



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Intermodulation IM3*	≤ -160 dBc for 2 carriers at + 43 dBm
Cable minimum bending radius	45 mm (repeated) / 25 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -32 dB	0.20 +0.1
< 2.2	< -30 dB	0.30 +0.1
< 4	< -22 dB	0.42 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

Return to Search by Part Number

P/N	Straight male type cable assemblies
Lenght	NEX10 m to NEX10 m
1 m	20 511 681
2 m	20 511 682
3 m	20 511 683

Consult us for other lenght

Jumpers



Jumper 1/4" SuperFlex Right Angle



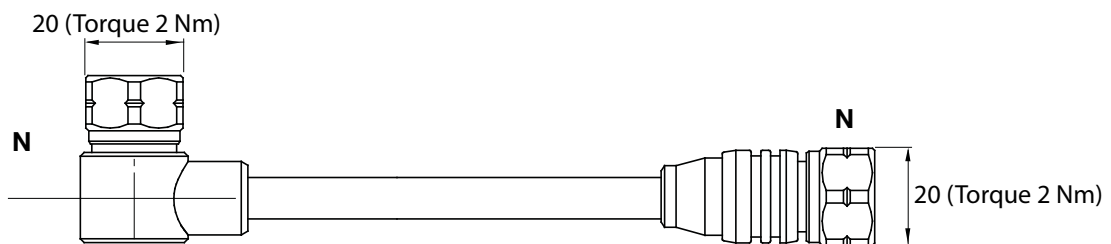
Standards
N : IEC 60169-16



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Intermodulation IM3*	≤ -160 dBc for 2 carriers at + 43 dBm
Cable minimum bending radius	45 mm (repeated) / 25 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67 (overmoulded sleeve)

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -32 dB	0.20 +0.1
< 2.2	< -30 dB	0.30 +0.1
< 4	< -22 dB	0.42 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Right Angle male to straight male type cable assemblies
Lenght	N m RA to N m
1 m	20 510 585
2 m	20 500 165
3 m	20 500 286
4 m	20 510 323
5 m	20 500 292
6 m	20 511 603

Consult us for other lenght

Jumper 1/4" SuperFlex Straight Fire Retardant



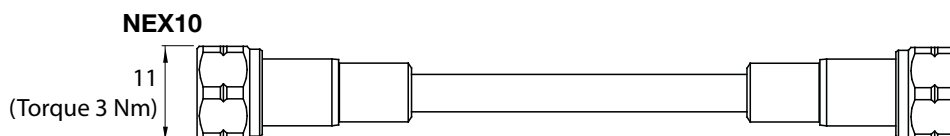
Jumpers



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Intermodulation IM3*	≤ -160 dBc for 2 carriers at + 43 dBm
Cable minimum bending radius	45 mm (repeated) / 25 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -32 dB	0.20 +0.1
< 2.2	< -30 dB	0.30 +0.1
< 4	< -22 dB	0.42 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

Return to Search by Part Number

P/N	Straight male type cable assemblies
Lenght	NEX10 m to NEX10 m
1 m	20 511 678
2 m	20 511 679
3 m	20 511 680

Consult us for other lenght

Jumper 3/8" SuperFlex Straight



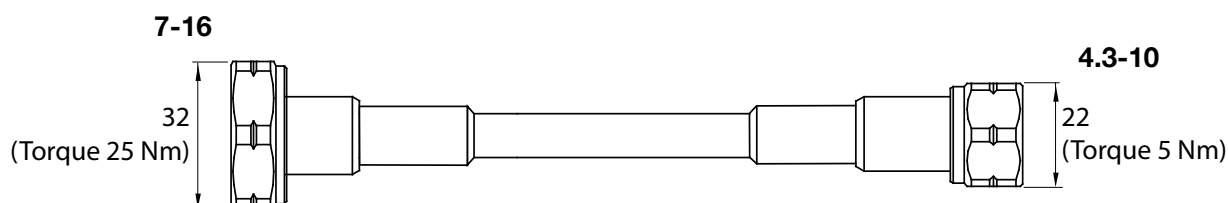
Standards
7-16 : IEC 60169-4
4.3-10 : IEC 60169-54



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Intermodulation IM3*	≤ -160 dBc for 2 carriers at + 43 dBm
Cable minimum bending radius	45 mm (repeated) / 25 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -32 dB	0.14 +0.1
< 2.2	< -30 dB	0.21 +0.1
< 4	< -26 dB	0.25 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Straight male type cable assemblies		
Lenght	4.3-10 m to 4.3-10 m	4.3-10 m to 7-16 m	N m to N m
1 m	20 511 781	20 511 782	20 511 784
2 m	20 511 697	20 511 460	20 511 785
3 m	20 511 463	20 511 461	20 511 374
4 m	20 511 698	20 511 462	20 511 786
5 m	20 511 699	20 511 696	20 511 787
6 m	20 511 765	20 511 783	20 511 788

Consult us for other lenght

Jumper 3/8" SuperFlex Right Angle



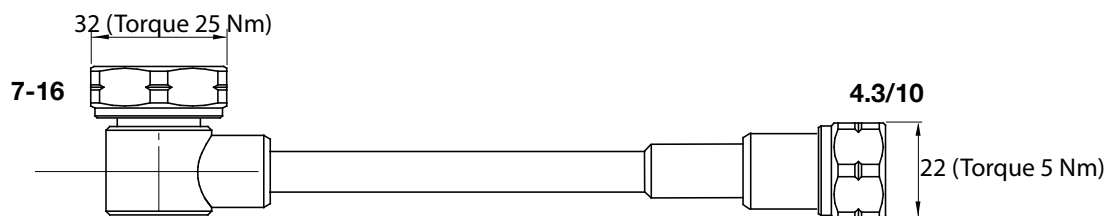
Standards
7-16 : IEC 60169-4
4.3-10 : IEC 60169-54



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Intermodulation IM3*	≤ -160 dBc for 2 carriers at + 43 dBm
Cable minimum bending radius	45 mm (repeated) / 25 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -32 dB	0.14 +0.1
< 2.2	< -30 dB	0.21 +0.1
< 4	< -26 dB	0.25 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Right Angle male to straight male type cable assemblies		
Lenght	7-16 m RA to 7-16 m	4.3-10 m RA to 4.3-10 m	4.3-10 m RA to 7-16 m
1 m	20 510 255	20 511 715	20 511 415
2 m	20 510 257	20 511 716	20 511 721
3 m	20 510 250	20 511 717	20 511 722
4 m	20 510 252	20 511 718	20 511 723
5 m	20 510 254	20 511 719	20 511 724
6 m	20 510 259	20 511 720	20 511 725

Consult us for other lenght



Jumper 1/2" SuperFlex Straight



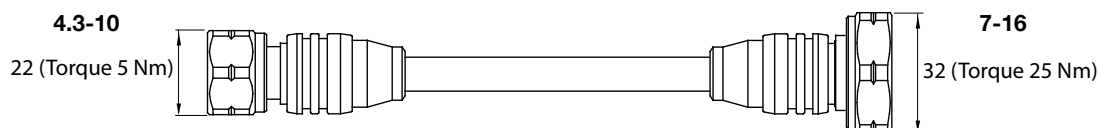
Standards
7-16 : IEC 60169-4
4.3-10 : IEC 60169-54



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Intermodulation IM3*	≤ -160 dBc for 2 carriers at + 43 dBm
Cable minimum bending radius	50 mm (repeated) / 25 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67 (overmoulded sleeve)

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -28 dB	0.11 +0.1
< 2.2	< -26 dB	0.17 +0.1
< 4	< -24 dB	0.25 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Straight male type cable assemblies		
Lenght	4.3-10 m to 4.3-10 m	7-16 m to 7-16 m	4.3-10 m to 7-16 m
1 m	20 511 047	20 500 090	20 510 906
2 m	20 511 048	20 500 093	20 510 914
3 m	20 511 049	20 500 092	20 510 915
4 m	20 511 050	20 500 153	20 510 916
5 m	20 511 041	20 500 154	20 510 917
6 m	20 511 129	20 500 155	20 511 128

Consult us for other lenght

Jumper 1/2" SuperFlex Right Angle



Standards
7-16 : IEC 60169-4
4.3-10 : IEC 60169-54

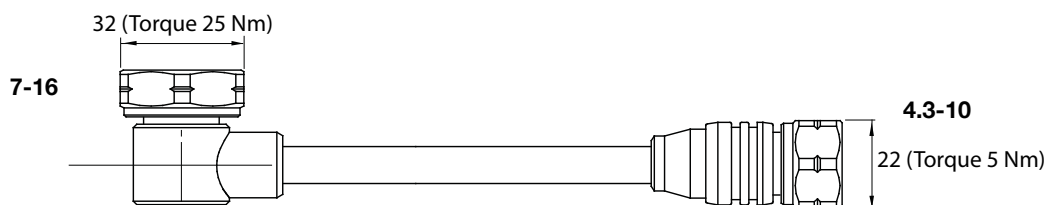


Jumpers

Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Intermodulation IM3*	≤ -160 dBc for 2 carriers at + 43 dBm
Cable minimum bending radius	50 mm (repeated) / 25 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67 (overmoulded sleeve)

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -28 dB	0.11 +0.1
< 2.2	< -26 dB	0.17 +0.1
< 4	< -24 dB	0.25 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Right Angle male to straight male type cable assemblies		
Lenght	4.3-10 m RA to 4.3-10 m	7-16 m RA to 7-16 m	4.3-10 m to 7-16 m RA
1 m	20 511 130	20 500 252	20 511 051
2 m	20 511 131	20 500 130	20 511 052
3 m	20 511 132	20 500 132	20 511 053
4 m	20 511 133	20 500 134	20 511 054
5 m	20 511 134	20 500 440	20 511 022
6 m	20 511 135	20 500 464	20 510 947

Consult us for other lenght

Jumper 1/2" SuperFlex Double Right Angle



Standards
7-16 : IEC 60169-4
4.3-10 : IEC 60169-54



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Intermodulation IM3*	≤ -160 dBc for 2 carriers at + 43 dBm
Cable minimum bending radius	50 mm (repeated) / 25 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67 (overmoulded sleeve)

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -28 dB	0.11 +0.1
< 2.2	< -26 dB	0.17 +0.1
< 4	< -24 dB	0.25 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Right Angle male to right angle male type cable assemblies		
Lenght	4.3-10 m RA to 4.3-10 m RA	7-16 m RA to 7-16 m RA	4.3-10 m RA to 7-16 m RA
1 m	20 511 442	20 510 099	20 511 709
2 m	20 511 704	20 510 423	20 511 710
3 m	20 511 705	20 500 939	20 511 711
4 m	20 511 706	20 510 158	20 511 712
5 m	20 511 707	20 500 841	20 511 713
6 m	20 511 708	20 500 821	20 510 714

Consult us for other lenght

Jumper 1/2" SuperFlex Straight Fire Retardant



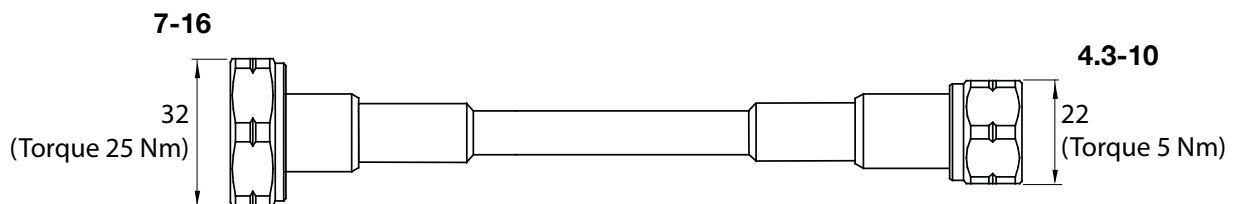
Standards
7-16 : IEC 60169-4
4.3-10 : IEC 60169-54



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Intermodulation IM3*	≤ -160 dBc for 2 carriers at + 43 dBm
Cable minimum bending radius	50 mm (repeated) / 25 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67 (overmoulded sleeve)

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -28 dB	0.11 +0.1
< 2.2	< -26 dB	0.17 +0.1
< 4	< -24 dB	0.25 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Straight male type cable assemblies		
Lenght	4.3-10 m to 4.3-10 m	7-16 m to 7-16 m	4.3-10 m to 7-16 m
1 m	20 511 201	20 500 472	20 511 192
2 m	20 511 203	20 500 473	20 511 194
3 m	20 511 205	20 500 474	20 511 196
4 m	20 511 206	20 500 896	20 510 197
5 m	20 511 207	20 500 683	20 511 198
6 m	20 511 208	20 510 352	20 511 199

Consult us for other lenght

Jumpers



Jumper 1/2" SuperFlex Right Angle Fire Retardant



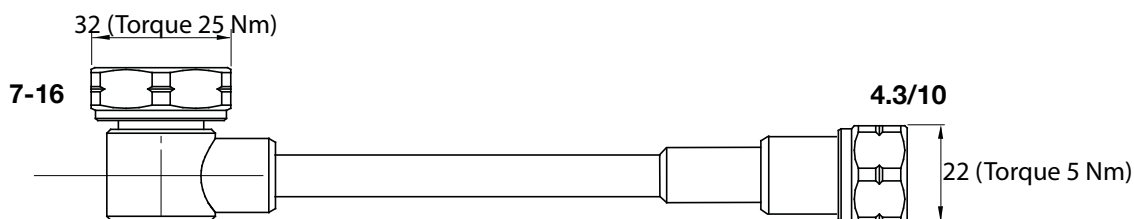
Standards
7-16 : IEC 60169-4
4.3-10 : IEC 60169-54



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Intermodulation IM3*	≤ -160 dBc for 2 carriers at + 43 dBm
Cable minimum bending radius	50 mm (repeated) / 25 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67 (overmoulded sleeve)

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -28 dB	0.11 +0.1
< 2.2	< -26 dB	0.17 +0.1
< 4	< -24 dB	0.25 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Right Angle male to straight male type cable assemblies		
Lenght	4.3-10 m RA to 4.3-10 m	7-16 m RA to 7-16 m	4.3-10 m to 7-16 m RA
1 m	20 511 217	20 510 380	20 511 209
2 m	20 511 219	20 500 708	20 511 211
3 m	20 511 221	20 500 778	20 511 213
4 m	20 511 222	20 500 785	20 511 214
5 m	20 511 223	20 500 777	20 511 215
6 m	20 511 224	20 510 356	20 511 216

Consult us for other lenght

Jumper 1/2" SuperFlex Double Right Angle Fire Retardant



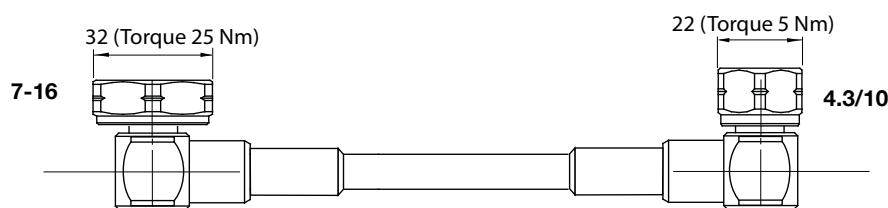
Standards
7-16 : IEC 60169-4
4.3-10 : IEC 60169-54



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Intermodulation IM3*	≤ -160 dBc for 2 carriers at + 43 dBm
Cable minimum bending radius	50 mm (repeated) / 25 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67 (overmoulded sleeve)

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -28 dB	0.11 +0.1
< 2.2	< -26 dB	0.17 +0.1
< 4	< -24 dB	0.25 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Right Angle male to right angle male type cable assemblies		
Lenght	4.3-10 m RA to 4.3-10 m RA	7-16 m RA to 7-16 m RA	4.3-10 m RA to 7-16 m RA
1 m	20 511 472	20 510 398	20 511 466
2 m	20 511 473	20 500 751	20 511 467
3 m	20 511 474	20 500 752	20 511 468
4 m	20 511 475	20 510 403	20 511 469
5 m	20 511 476	20 510 404	20 511 470
6 m	20 511 477	20 510 378	20 511 471

Consult us for other lenght



Jumper 1/4" Flex Straight & Right Angle



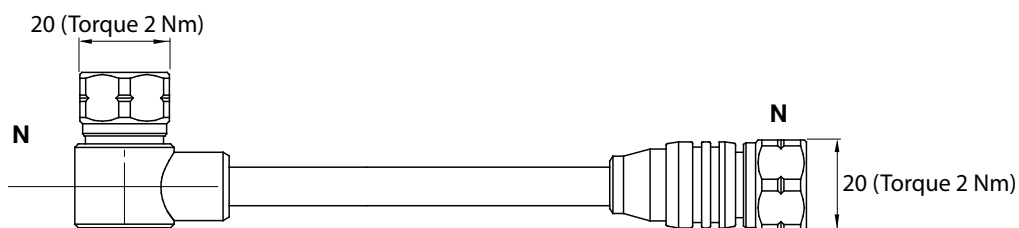
Standards
N : IEC 60169-16



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Intermodulation IM3*	≤ -160 dBc for 2 carriers at + 43 dBm
Cable minimum bending radius	85 mm (repeated) / 40 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67 (overmoulded sleeve)

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -34 dB	0.14 +01
< 2.2	< -28 dB	0.22 +0.1
< 4	< -27 dB	0.27 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Straight or Right Angle male to straight male type cable assemblies	
Lenght	N m to N m	N m RA to N m
1 m	20 511 604	20 500 828
2 m	20 510 042	20 500 798
3 m	20 510 467	20 500 631
4 m	20 511 605	20 510 015
5 m	20 510 429	20 510 428
6 m	20 511 606	20 511 044

Consult us for other lenght

Jumper 1/2" Flex Straight



Standards
7-16 : IEC 60169-4
4.3-10 : IEC 60169-54

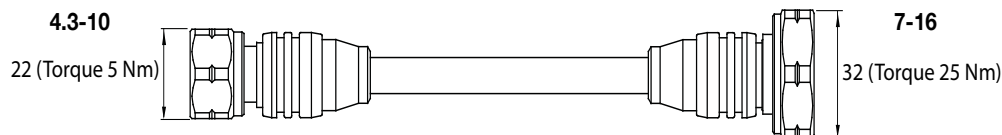


Jumpers

Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Intermodulation IM3*	≤ -160 dBc for 2 carriers at + 43 dBm
Cable minimum bending radius	120 mm (repeated) / 70 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67 (overmoulded sleeve)

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -28 dB	0.08 +0.1
< 2.2	< -26 dB	0.12 +0.1
< 4	< -24 dB	0.16 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Straight male type cable assemblies		
Lenght	4.3-10 m to 4.3-10 m	7-16 m to 7-16 m	4.3-10 m to 7-16 m
1 m	20 511 236	20 500 205	20 511 329
2 m	20 511 238	20 500 178	20 511 262
3 m	20 511 334	20 500 196	20 511 298
4 m	20 511 242	20 500 256	20 511 281
5 m	20 511 243	20 500 273	20 511 317
6 m	20 511 325	20 500 466	20 511 282

Consult us for other lenght

Jumper CNT 195 Straight Fire Retardant

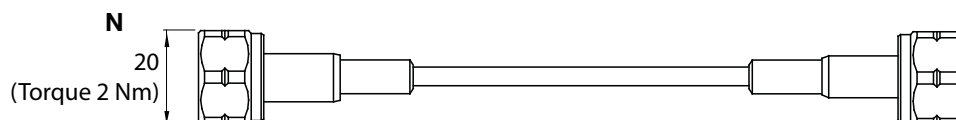


Standards
N : IEC 60169-16



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 4 GHz
Cable diameter	$\varnothing$ 4.95 mm
Cable minimum bending radius	12.7 mm
Operating temperature range	- 40 °C + 85 °C
Protection level	IP 65

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -28 dB	0.4 +0.1
< 2.2	< -24 dB	0.6 +0.1
< 4	< -23 dB	0.8 +0.1



Dimensions in mm

Return to Search by Part Number

P/N	Straight Male type cable assemblies
Lenght	N m / N m
1 m	20 510 449
2 m	20 510 801
3 m	20 511 693
4 m	20 511 694
5 m	20 511 695

Consult us for other lenght

Jumper 1/4" XF Right Angle Fire Retardant

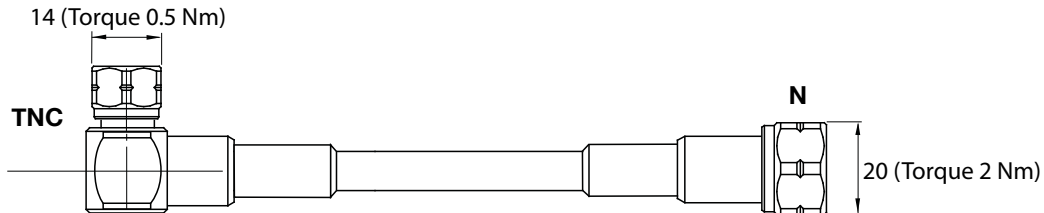
Standards
N : IEC 60169-16
TNC : IEC 60169-17



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 3 GHz
Cable minimum bending radius	45 mm (repeated) / 20 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 65

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -34 dB	0.22 +01
< 2.2	< -28 dB	0.34 +0.1
< 3	< -27 dB	0.40 +0.1

* Inner and outer cable conductors 100 % soldered to the connector



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Right Angle male to straight male type cable assemblies
Lenght	TNC m RA to N m
1 m	20 511 613
2 m	20 510 067
3 m	20 510 069
4 m	20 510 046
5 m	20 510 348
6 m	20 511 614

Consult us for other lenght



Jumper RG 316 Straight

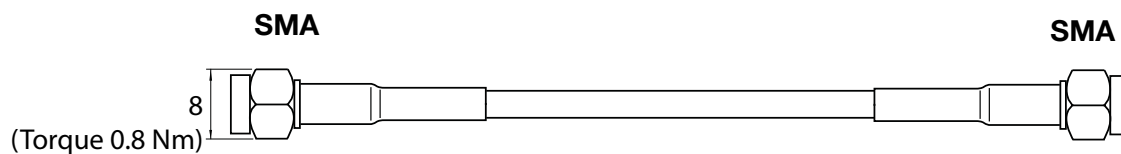


Standards
SMA : IEC 60169-15



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 2.5 GHz
Cable diameter	$\varnothing$ 2.5 mm
Cable minimum bending radius	25 mm (repeated) / 5 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 64

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1.0	< -28 dB	1.0 +0.1
< 2.0	< -24 dB	1.5 +0.1
< 2.5	< -23 dB	1.7 +0.1



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Straight type cable assemblies		
Lenght	SMA m / SMA m	SMA m / SMA f	SMA f / SMA f
0.5 m	20 511 646	20 511 652	20 511 658
1 m	20 511 647	20 511 653	20 511 659
1.5 m	20 511 648	20 511 654	20 511 660
2 m	20 511 649	20 511 655	20 511 661
2.5 m	20 511 650	20 511 656	20 511 662
3 m	20 511 651	20 511 657	20 511 663

Consult us for other lenght

Jumper RG 58 Straight Fire Retardant

Standards
N : IEC 60169-16
SMA : IEC 60169-15
TNC : IEC 60169-17

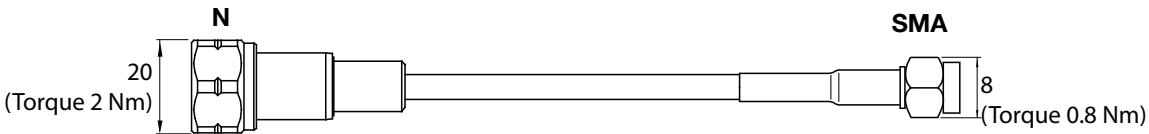


Jumpers



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 2.5 GHz
Cable diameter	$\varnothing$ 5 mm
Cable minimum bending radius	50 mm (repeated) / 25 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 64

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1.0	< -28 dB	0.65 +0.1
< 2.0	< -24 dB	0.95 +0.1
< 2.5	< -23 dB	1.1 +0.1



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Straight type cable assemblies			
Lenght	N m / N m	N m / TNC m	N m / SMA m	SMA m / SMA m
1 m	20 510 544	20 510 863	20 510 946	20 511 634
2 m	20 511 621	20 511 626	20 500 079	20 511 024
3 m	20 511 622	20 511 627	20 511 631	20 511 025
4 m	20 511 623	20 511 628	20 511 632	20 511 635
5 m	20 511 624	20 511 629	20 511 023	20 511 026
6 m	20 511 625	20 511 630	20 511 633	20 511 636

Consult us for other lenght

Jumper RG 223 Straight

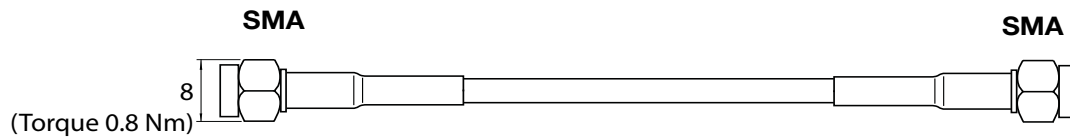


Standards
SMA : IEC 60169-15



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 2.5 GHz
Cable diameter	$\varnothing$ 5.40 mm
Cable minimum bending radius	50 mm (repeated) / 25 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 64

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1.0	< -28 dB	0.65 +0.1
< 2.0	< -24 dB	0.95 +0.1
< 2.5	< -23 dB	1.1 +0.1



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Straight type cable assemblies		
Lenght	SMA m / SMA m	SMA m / SMA f	SMA f / SMA f
1 m	20 511 637	20 511 640	20 511 643
2 m	20 511 638	20 511 641	20 511 644
3 m	20 511 639	20 511 642	20 511 645

Consult us for other lenght

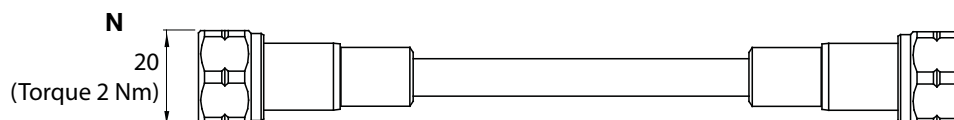
Jumper RG 214 Straight

Standards
N : IEC 60169-16



Impedance	50 $\Omega \pm 2\%$
Frequency	DC ~ 2.7 GHz
Cable diameter	$\varnothing$ 10.8 mm
Cable minimum bending radius	100 mm (repeated) / 50 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67 (overmoulded sleeve)

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1	< -28 dB	0.26 +0.1
< 2.2	< -24 dB	0.45 +0.1
< 2.7	< -23 dB	0.55 +0.1



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Straight type cable assemblies	
Lenght	N m / N m	N m / N f
1 m	20 510 424	20 511 609
2 m	20 510 533	20 510 646
3 m	20 511 300	20 511 392
4 m	20 511 607	20 511 610
5 m	20 510 560	20 511 611
6 m	20 511 608	20 511 612

Consult us for other lenght



Jumper RG 214 Straight Fire Retardant

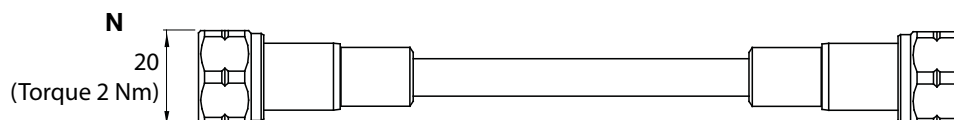


Standards
N : IEC 60169-16



Impedance	50 Ω $\pm$ 2%
Frequency	DC ~ 2.7 GHz
Cable diameter	$\varnothing$ 10.8 mm
Cable minimum bending radius	100 mm (repeated) / 40 mm (single)
Operating temperature range	- 40 °C + 70 °C
Protection level	IP 67 (overmoulded sleeve)

Frequency (GHz)	Return loss (dB)	Attenuation (dB/m)
< 1.0	< -28 dB	0.26 +0.1
< 2.2	< -24 dB	0.45 +0.1
< 2.7	< -23 dB	0.55 +0.1



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Straight type cable assemblies		
Lenght	N m / N m	N m / N f	N f / N f
1 m	20 500 041	20 500 560	20 500 621
2 m	20 500 073	20 500 811	20 500 813
3 m	20 500 074	20 500 524	20 500 938
4 m	20 500 038	20 500 910	20 511 601
5 m	20 500 075	20 511 599	20 511 602
6 m	20 500 039	20 511 600	20 510 895

Consult us for other lenght

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20 500 038	Q22
20 500 039	Q22
20 500 041	Q22
20 500 073	Q22
20 500 074	Q22
20 500 075	Q22
20 500 079	Q19
20 500 090	Q8
20 500 092	Q8
20 500 093	Q8
20 500 130	Q9
20 500 132	Q9
20 500 134	Q9
20 500 153	Q8
20 500 154	Q8
20 500 155	Q8
20 500 165	Q4
20 500 178	Q15
20 500 196	Q15
20 500 205	Q15
20 500 252	Q9
20 500 256	Q15
20 500 273	Q15
20 500 286	Q4
20 500 292	Q4
20 500 440	Q9
20 500 464	Q9
20 500 466	Q15
20 500 472	Q11
20 500 473	Q11
20 500 474	Q11
20 500 524	Q22
20 500 560	Q22
20 500 621	Q22
20 500 631	Q14
20 500 683	Q11
20 500 708	Q12
20 500 751	Q13
20 500 752	Q13
20 500 777	Q12
20 500 778	Q12
20 500 785	Q12

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20 500 798	Q14
20 500 811	Q22
20 500 813	Q22
20 500 821	Q10
20 500 828	Q14
20 500 841	Q10
20 500 896	Q11
20 500 910	Q22
20 500 938	Q22
20 500 939	Q10
20 510 015	Q14
20 510 042	Q14
20 510 046	Q17
20 510 067	Q17
20 510 069	Q17
20 510 099	Q10
20 510 158	Q10
20 510 197	Q11
20 510 250	Q7
20 510 252	Q7
20 510 254	Q7
20 510 255	Q7
20 510 257	Q7
20 510 259	Q7
20 510 323	Q4
20 510 348	Q17
20 510 352	Q11
20 510 356	Q12
20 510 378	Q13
20 510 380	Q12
20 510 398	Q13
20 510 403	Q13
20 510 404	Q13
20 510 423	Q10
20 510 424	Q21
20 510 428	Q14
20 510 429	Q14
20 510 449	Q16
20 510 467	Q14
20 510 533	Q21
20 510 544	Q19
20 510 560	Q21

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20 510 646	Q21
20 510 714	Q10
20 510 801	Q16
20 510 863	Q19
20 510 895	Q22
20 510 906	Q8
20 510 914	Q8
20 510 915	Q8
20 510 916	Q8
20 510 917	Q8
20 510 946	Q19
20 510 947	Q9
20 511 022	Q9
20 511 023	Q19
20 511 024	Q19
20 511 025	Q19
20 511 026	Q19
20 511 041	Q8
20 511 044	Q14
20 511 047	Q8
20 511 048	Q8
20 511 049	Q8
20 511 050	Q8
20 511 051	Q9
20 511 052	Q9
20 511 053	Q9
20 511 054	Q9
20 511 128	Q8
20 511 129	Q8
20 511 130	Q9
20 511 131	Q9
20 511 132	Q9
20 511 133	Q9
20 511 134	Q9
20 511 135	Q9
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20 511 194	Q11
20 511 196	Q11
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20 511 199	Q11
20 511 201	Q11

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20 511 207	Q11
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20 511 211	Q12
20 511 213	Q12
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20 511 215	Q12
20 511 216	Q12
20 511 217	Q12
20 511 219	Q12
20 511 221	Q12
20 511 222	Q12
20 511 223	Q12
20 511 224	Q12
20 511 236	Q15
20 511 238	Q15
20 511 242	Q15
20 511 243	Q15
20 511 262	Q15
20 511 281	Q15
20 511 282	Q15
20 511 298	Q15
20 511 300	Q21
20 511 317	Q15
20 511 325	Q15
20 511 329	Q15
20 511 334	Q15
20 511 374	Q6
20 511 392	Q21
20 511 415	Q7
20 511 442	Q10
20 511 460	Q6
20 511 461	Q6
20 511 462	Q6
20 511 463	Q6
20 511 466	Q13
20 511 467	Q13
20 511 468	Q13
20 511 469	Q13

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20 511 471	Q13
20 511 472	Q13
20 511 473	Q13
20 511 474	Q13
20 511 476	Q13
20 511 477	Q13
20 511 599	Q22
20 511 600	Q22
20 511 601	Q22
20 511 602	Q22
20 511 603	Q4
20 511 604	Q14
20 511 605	Q14
20 511 606	Q14
20 511 607	Q21
20 511 608	Q21
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20 511 630	Q19
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20 511 632	Q19
20 511 633	Q19
20 511 634	Q19
20 511 635	Q19
20 511 636	Q19
20 511 637	Q20
20 511 638	Q20
20 511 639	Q20

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20 511 640	Q20
20 511 641	Q20
20 511 642	Q20
20 511 643	Q20
20 511 644	Q20
20 511 645	Q20
20 511 646	Q18
20 511 647	Q18
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20 511 663	Q18
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20 511 679	Q5
20 511 680	Q5
20 511 681	Q3
20 511 682	Q3
20 511 683	Q3
20 511 693	Q16
20 511 694	Q16
20 511 695	Q16
20 511 696	Q6
20 511 697	Q6
20 511 698	Q6
20 511 699	Q6
20 511 704	Q10
20 511 705	Q10
20 511 706	Q10
20 511 707	Q10
20 511 708	Q10

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20 511 709	Q10
20 511 710	Q10
20 511 711	Q10
20 511 712	Q10
20 511 713	Q10
20 511 715	Q7
20 511 716	Q7
20 511 717	Q7
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20 511 722	Q7
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20 511 724	Q7
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20 511 765	Q6
20 511 781	Q6
20 511 782	Q6
20 511 783	Q6
20 511 784	Q6
20 511 785	Q6
20 511 786	Q6
20 511 787	Q6
20 511 788	Q6



Notes

Jumpers







Notes

Jumpers



