



► A05, 9/F, Block 2, Camel Paint Building, 62 Hoi Yuen Road, Kwun Tong, Kowloon, HongKong



► 238, Alameda Dr. Carlos d'Assumpcao, Ed. Praca Kin Heng Long, 20G, Macau

Data *sheet*

Fusion Red Cable



Physical Dimensions

Centre Conductor	Material	Copper
	Diam. mm	1.63
Dielectric	Material	Physical foamed PE
	Diam. mm	7.11
Shield	First Shield	Bonded Aluminum Foil
	Braid	Aluminum Braid
Jacket	Material	LSZH
	Diam, mm	10 ±0.2

Electrical

Nominal Impedance, Ω	75±3
Capacitance, pF/m	53±3
Propagation Velocity, %	85
Inner Conductor Resistance, Ω .km	8.3
Outer Conductor Resistance, Ω .km	30.3
Loop Conductor Resistance, Ω .km	38.6
Shielding Effectiveness, dB	> 70
Min. bending Radius , mm	50
Operating Temperature, °C	-20 to 80

@ Frequency MHz	Attenuation (20°C, <dB/100m
5	1.25
55	3.15
211	6.23
250	6.72
300	7.38
350	7.94
400	8.53
450	9.02



RoHS
Compliant





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Data *sheet*



Fusion Blue Cable

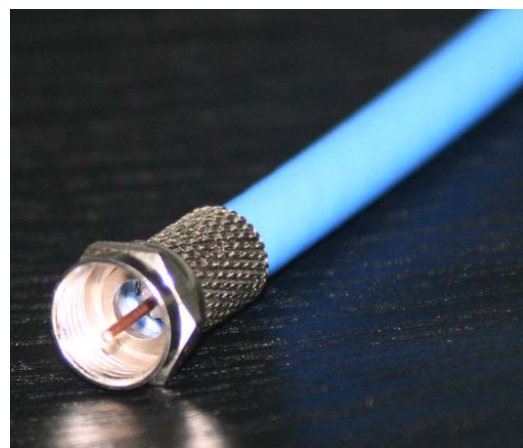
Physical Dimensions

Centre Conductor	Material	Copper
	Diam. mm	1 ± 0.1
Dielectric	Material	Physical foamed PE
	Diam. mm	4.5 ± 0.1
Shield	First Shield	Bonded Aluminum Foil
	Braid	Aluminum Braid
Jacket	Material	LSZH
	Diam, mm	7.0±0.2

Electrical

Nominal Impedance, Ω	75±3
Capacitance, pF/m	53±3
Propagation Velocity, %	85
Inner Conductor Resistance, Ω.km	21
Outer Conductor Resistance, Ω.km	40
Loop Conductor Resistance, Ω.km	61
Shielding Effectiveness, dB	> 70
Min. bending Radius , mm	35
Operating Temperature, °C	-20 to 80

@ Frequency MHz	Attenuation 20°C, <dB/100 m
5	1.9
55	5.25
211	10
250	10.82
300	11.64
350	12.63
400	13.61
450	14.43



RoHS
Compliant





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Data sheet

Connectors for Fusion Cables



RG11 Connector for Fusion **Red** Cable

Part No..JC3.650.81320



RG6 Connector for Fusion **Blue** Cable

Part No..JC3.650.8343



Special F Connectors

- Customised for Fusion
- Fits perfectly with our Fusion Red & Fusion Blue cables



Also Available: F - F female
Adapters

for

Connecting cables with

Low Loss

RoHS





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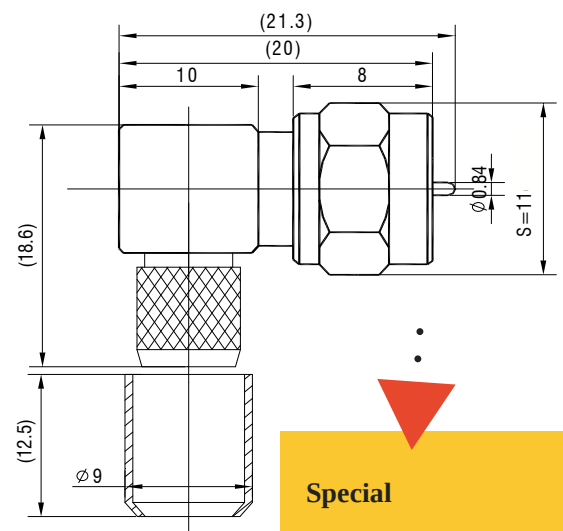
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Data sheet

Elbow Connectors for Fusion Cables

RG6 Elbow Connector for Fusion **Blue** Cable

Part No..JC3.650.343



Special

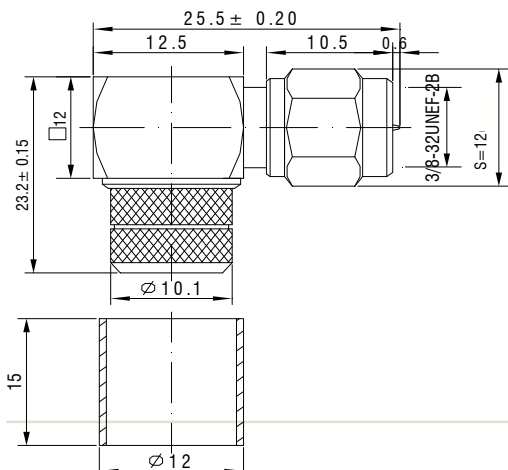
F Connectors

- Customised for Fusion
- Fits perfectly with our Fusion Red & Fusion Blue cables

RoHS

RG11 Elbow Connector for Fusion **Red** Cable

Part No..JC3.650.1320





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Data *sheet*

Cables – Cat 5e / Cat 6

Application

Our cat 5e cable is designed to provide additional performance and bandwidth over and above the basic requirements of Category 5e.

With modern high speed applications, installation effects can have a serious influence on the initial cable performance and without sufficient headroom problems can arise. The addition of transition points within the link can also lead to additional losses.

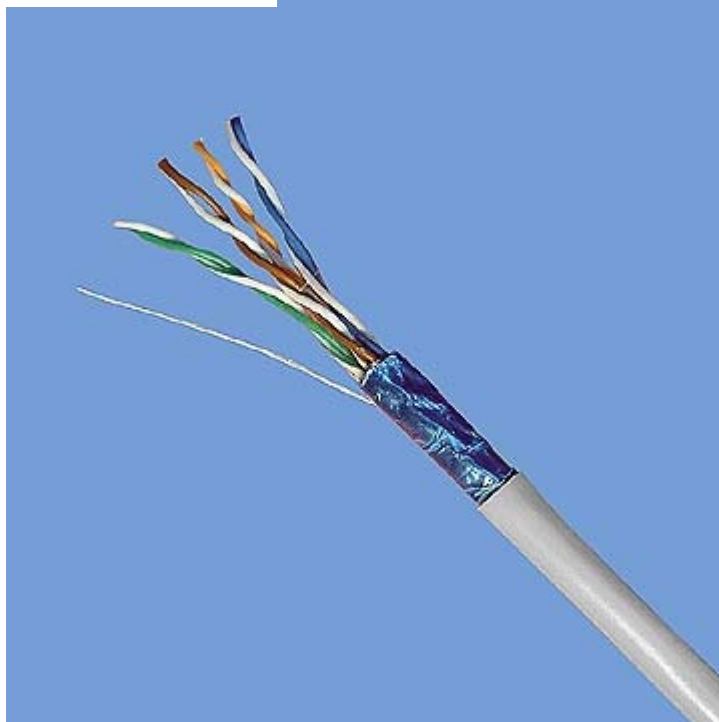
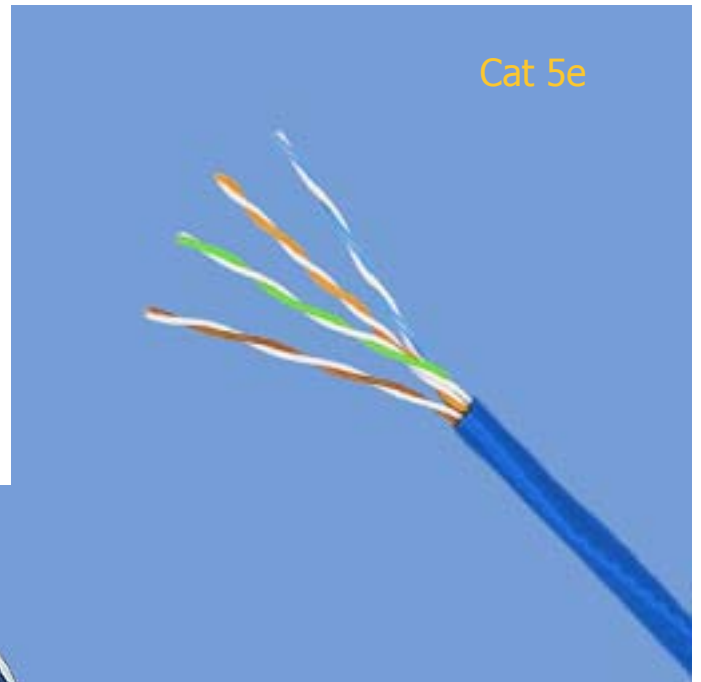
Our cables are ideal for Structured Cabling. They Complies / Exceed:

- ISO IEC11801
- EIA/TIA 568-A5-2001
- YD/T1019_2001



Cat 6

Cat 5e





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Data *sheet*

DragonTECH 50 Ohms Corrugated Copper Tube Series Coaxial Cables

Applications

- Land mobile and cellular radio
- Earth station antenna jumper cables
- Jumpers for equipments room and antenna connection
- Military data links
- VLF, AM and FM radio broadcast systems
- Point to point terrestrial microwave
- Airborne and shipboard radar systems
- Tactical, restoration and portable communication systems

Product Benefits

- Excellent Electrical performance
- 80% super-high degree foaming polyethylene insulation
- Low attenuation, low VSWR
- Light, flexible and easily-bending thin-wall corrugated copper conductor offers convenience for field work with 6 types of dimensions
- Effective moisture-proofing without injection of drying-gases
- Come with full Test Report
- 100% RoHS, LSZH, ISO9001:2000



		1-5/8"	1-1/4"	7/8"	5/8"	1/2"	3/8"	7/8" S	1/2" S	1/4" S
Physical Dimensions										
Inner Conductor (Dia.mm)		17.30	13.10	9.05	7.05	4.80	3.15	9.35	3.60	1.91
Outer Conductor (Dia.mm)		46.50	35.80	24.90	19.80	13.80	9.50	24.90	12.20	6.40
*Jacket (mm)	Thickness	1.75	1.80	1.30	1.20	1.00	0.85	1.05	0.70	0.60
	Diameter	50.00	39.40	27.50	22.20	15.80	11.20	27.00	13.60	7.60
Weight (kg/km)		1470	1085	530	420	250	135	430	210	80
Mechanical Characteristics										
Minimum Bending Radius (mm)	Single Bending	300	200	120	90	70	50	80	25	25
	10 Repeated Bendings	510	380	250	200	125	95	125	30	30
	Mobile Application	---	---	500	450	350	300	400	200	200
Max. Pulling Strength (N)		3630	5900	1470	3630	1130	800	1020	800	680





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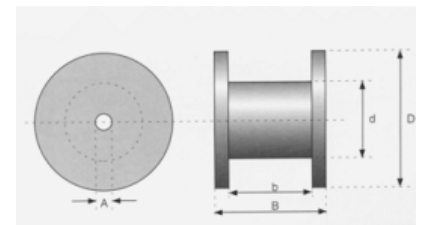


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Data sheet

DragonTECH 50 Ohms Corrugated Copper Tube Series Coaxial Cables

		1-5/8"	1-1/4"	7/8"	5/8"	1/2"	3/8"	7/8" S	1/2" S	1/4" S
Electrical Characteristics										
DC Resistance ≤(Ω/km) (20℃)	Inner Conductor	0.83	0.72	1.05	0.49	1.48	3.48	2.70	2.69	9.80
	Outer Conductor	0.52	0.62	1.18	1.37	1.90	2.85	1.19	3.28	6.50
Nominal Capacitance (pF/m)		76	75	75	76.1	75.8	75	74.2	82	79.4
Characteristic Impedance (Ω)		50±1								
Velocity Ratio (%)		88	89	89	89	88	88	88	84	84
Attenuation (20℃) (dB/100m)	10MHz	0.20	0.25	0.37	0.48	0.67	1.06	0.40	1.04	1.83
	100MHz	0.67	0.83	1.19	1.55	2.17	3.42	1.30	3.41	5.89
	150MHz	0.83	1.03	1.47	1.92	2.67	4.22	1.61	4.21	7.25
	200MHz	0.98	1.20	1.72	2.24	3.10	4.90	1.87	4.91	8.41
	300MHz	1.22	1.50	2.13	2.78	3.83	6.06	2.32	6.09	10.40
	450MHz	1.53	1.87	2.65	3.46	4.75	7.51	2.88	7.59	12.80
	800MHz	2.13	2.59	3.63	4.75	6.46	10.20	3.94	10.40	17.40
	900MHz	2.29	2.77	3.88	5.07	6.87	10.90	4.22	11.20	18.40
	1000MHz	2.43	2.94	4.12	5.38	7.28	11.60	4.46	11.80	19.60
	1500MHz	3.11	3.73	5.18	6.78	9.09	14.40	5.60	14.90	24.30
	1800MHz	3.47	4.16	5.75	7.54	10.10	16.00	6.21	16.60	26.90
	2000MHz	3.71	4.43	6.11	8.02	10.70	17.00	6.59	17.60	28.50
	2500MHz	4.27	5.08	6.95	9.15	12.10	19.30	7.50	19.20	32.10
	3000MHz	---	5.68	7.76	10.20	13.40	21.40	8.35	22.40	35.60
Mean Power Rating (kW) (Ambient Temperature 40℃, Inner Conductor 80℃)	10MHz	54.30	38.60	24.60	16.70	11.30	7.23	21.50	10.10	3.97
	100MHz	16.40	11.70	7.56	5.14	3.49	2.24	6.62	3.08	1.23
	200MHz	11.30	8.12	5.26	3.57	2.44	1.56	4.61	2.14	0.865
	300MHz	9.01	6.52	4.24	2.87	1.97	1.26	3.72	1.72	0.701
	450MHz	7.18	5.22	3.41	2.31	1.59	1.02	2.99	1.38	0.567
	800MHz	5.15	3.78	2.48	1.68	1.17	0.748	2.19	1.01	0.419
	1000MHz	4.52	3.32	2.19	1.48	1.04	0.663	1.94	0.889	0.372
	1500MHz	3.54	2.62	1.74	1.18	0.833	0.53	1.54	0.705	0.299
	1800MHz	3.17	2.35	1.57	1.06	0.753	0.479	1.39	0.634	0.271
	2000MHz	2.96	2.21	1.48	0.996	0.71	0.451	1.31	0.597	0.256
	2500MHz	2.58	1.92	1.30	0.868	0.627	0.40	1.15	0.525	0.226
	3000MHz	---	1.72	1.16	0.783	0.565	0.358	1.04	0.469	0.204
DC Breakdown Voltage (V) ≥		11000	9000	6000	5000	4000	2500	6000	2500	1600
RF Peak Power (kW)		315	205	91	62	40	15.6	90	15.6	6.4
Cut-off frequency (GHz)		3.00	4.00	6.00	6.10	8.80	13.50	4.90	10.20	20.40
Shielding Effectiveness (dB)		≥120								
Insulation Resistance(MΩ·km)		≥5×10 ³								
VSWR	0.01GHz—3GHz	---			≤1.15					
	0.01GHz—2GHz	≤1.15			---					
	820MHz—960MHz				≤1.10					
	1.7GHz—1.9GHz									
	2.1GHz—2.2GHz									





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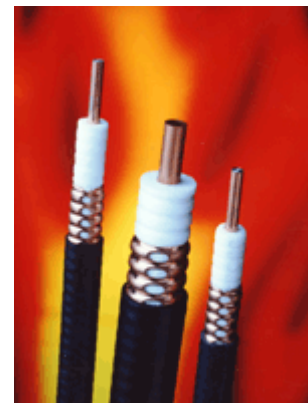
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Data *sheet*

DragonTECH Leaky Radiating Coaxial Cables

A radiating cable functions both as a transmission line and as an antenna. Our 50 ohms radiating coaxial cables have very good performance and are widely used in the following applications:

- Mines
- Subways
- Tunnels



		1-5/8"		1-1/4"	7/8"	1/2"		3/8"
		-1	-2			-1	-2	
Physical Dimensions								
Inner Conductor	Material	Corrugated Cu-tube		Smooth Cu-tube		CCA		
	Diameter(mm)	17.30	13.10	9.05	4.80	3.15		
Outer Conductor		Diameter(mm)	46.50	35.80	24.90	13.80	9.50	
*Jacket	Thickness(mm)	1.75	1.80	1.30	1.00	0.85		
	Diameter(mm)	50.00	39.40	27.50	15.80	11.20		
Mechanical Characteristics								
Min. bending Radius (10) (mm)		510	400	280	125	95		
Max. Pulling Strength (N)		3630	5900	1470	1130	800		
Electrical Characteristics								
DC Resistance ≤ (Ω /km) (20 °C)	Inner Conductor	0.83	0.83	0.72	1.05	1.48	1.48	3.48
	Outer Conductor	0.70	0.60	0.72	1.36	2.20	2.30	3.30
Nominal Capacitance (pF/m)		76	75	76.1	75.8	75		
Characteristic Impedance (Ω)		50±1						
Velocity Ratio (%)		88	89	89	88	88		
Attenuation (20 °C) (dB/100m)	150MHz	0.8	1.0	1.3	1.8	3.3	3.6	4.9
	450MHz	2.0	2.5	3.0	3.6	6.6	8.2	8.5
	900MHz	2.7	3.3	4.0	5.1	9.5	11.8	12.1
	1800MHz	4.4	5.1	5.6	7.6	13.1	16.1	17.4
	2400MHz	---	---	6.9	9.2	15.7	19.0	---
*Coupling Loss (2m) (dB±10dB)	150MHz	71	60	64	62	58	52	56
	450MHz	80	67	75	72	63	57	61
	900MHz	79	68	77	72	68	63	68
	1800MHz	89	78	84	84	73	69	74
	2400MHz	---	---	76	76	73	69	---
VSWR	0.01GHz—3GHz	≤1.30						

*Note: Fire-Retardency PE outer sheath can be available per customer's requirement.

*Note: The value of coupling loss in the above table is attained according to IEC1196-4 specification. The statistical median is 50% the true value of coupling.





► Unit A, 11F, Wing
Hong Centre, 18 Wing
Hong St., Kowloon,
Hongkong



► 238, Alameda Dr.
Carlos d'Assumpcao,
Ed. Praca Kin Heng
Long, 20G, Macau

Data sheet

DTLL400 Low Lost Cable



Physical Characteristics

Type Nr.	Inner Conductor O.D. in (mm)	Dielectric O.D. in (mm)	Outer Conductor O.D. in (mm)	Standard Jacket in (mm)	Weight kg/m
Low Loss 400	109 (2.77)	.285 (7.24)	.320 (8.13)	405 (10.3)	0.108
	Copper-clad aluminum	closed-cell PE	Sealed Al./ Mylar*/Al.+ Tinned cop- per braid, 85%	Black PVC	
1/4" RG8/U JIS 8D type	1.41Ω/Mft 4.60Ω/km		1.65Ω/Mft 5.41Ω/km		

Electrical Characteristics

Nominal Impedance (ohms)	Nom. Velocity of propagation	Capacitance pF / ft (pF/m)	Nominal Attenuation		
			MHz	dB/100ft	dB/100m
50	85%	24.5 (78.4)	30	0.67	2.2
			150	1.5	5.0
			450	2.7	8.8
			900	3.9	12.7
			1500	5.1	18.6
			2000	6.0	19.6
			2500	6.8	22.2
			5500	10.2	30.5





► Unit A, 11F, Wing
Hong Centre, 18 Wing
Hong St., Kowloon,
Hongkong



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Ed. Praca Kin Heng
Long, 20G, Macau

Data sheet

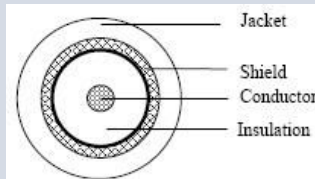
DTLL200 Low Lost Cable

TECHNICAL SPECIFICATION

CABLE TYPE		LOW LOSS 200 COAXIAL CABLE	
STRUCTURE			
	Composition(No./mm)	1/1.12mm	
Conductor	Material	Bare Copper Wire	
	Outside Diameter (mm)	1.12±0.03mm	
	Material	Gas Injected Foamed Polyethylene	
Insulation	Thickness (mm)	0.84mm	
	Nom. Diameter(mm)	2.80 ± 0.1mm	
Shield	Material	(1) Bonded Aluminum Foil	(2) Tinned Copper Wire
	Construction	0.025mm	16x6/0.12mm
	Coverage	88%	
	Diameter(mm)	0.12±0.008mm	
	Material	PVC	
Jacket	Diameter(mm)	4.95 ± 0.10m	
	Color	Black	
Printing	LOW LOSS 200 50 OHM COAXIAL CABLE NFC/HYT 3D		

ELECTRICAL CHARACTERISTIC

Impedance	W	50 ± 3						
Insulation Resistance	MW / km	1000 -						
Capacitance	pF/M	80.4 ± 3						
Attenuation	Frequency(MHz)	30	150	450	900	1500	1800	2500
	dB/100M	5.8	13.1	22.8	32.6	42.4	46.6	55.4



DRWN. Lei LD

DRWN. No.:

CHKD.

4LMR20009601001M1

APPD.

R.S.

Date:NOV. 05, 2004



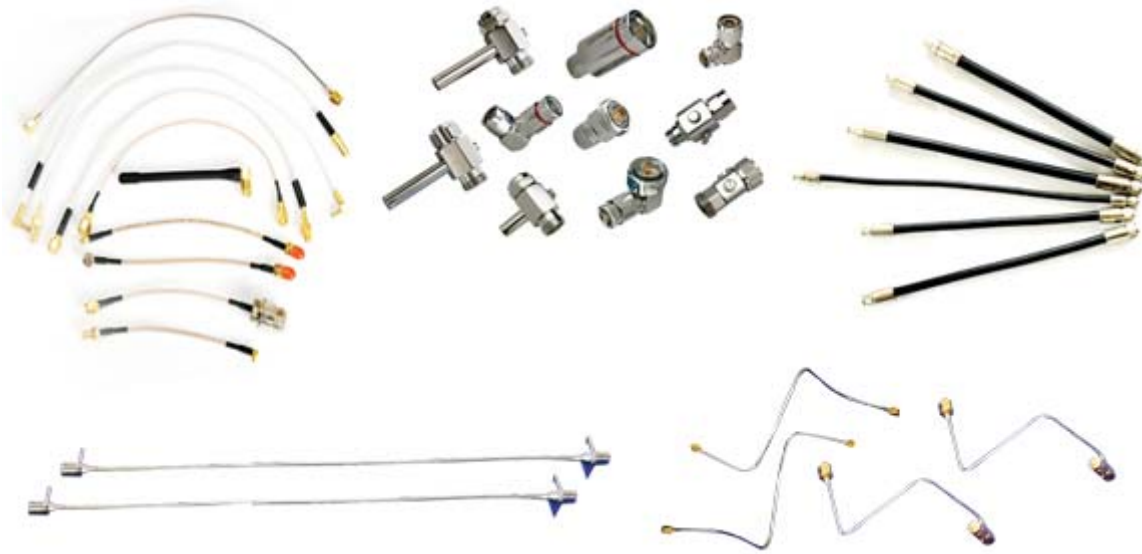
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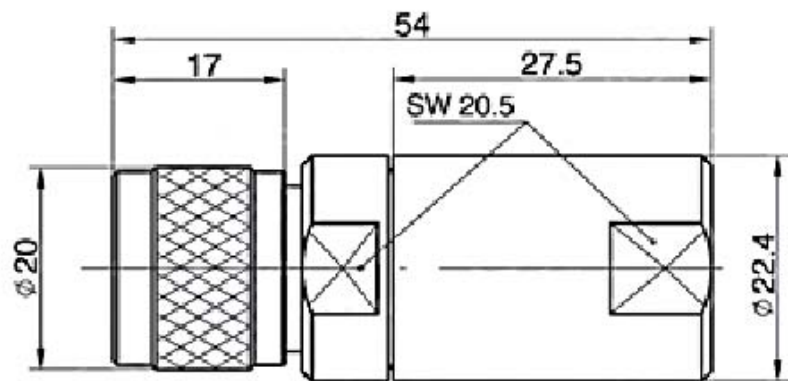
Data sheet

N male Connector for Coax Cables



We supply quality **Microwave Coaxial Connectors, Adapters, Cable Assemblies, DC Blocks, Shorts, Terminations, Attenuators, Phase Adjusters** and much more.

Now with over **2,500** product types!



Code : DJC3.650.854

Type : N-J-1/2-50A-3

Category : CONNECTORS FOR FLEXIBLE CABLE

Cable : 1/2"Flexible Cable





DragonTECH

www.InBuildingProjects.com

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○ COUPLER

○ ANTENNA

○ RF CABLE & CONNECTORS



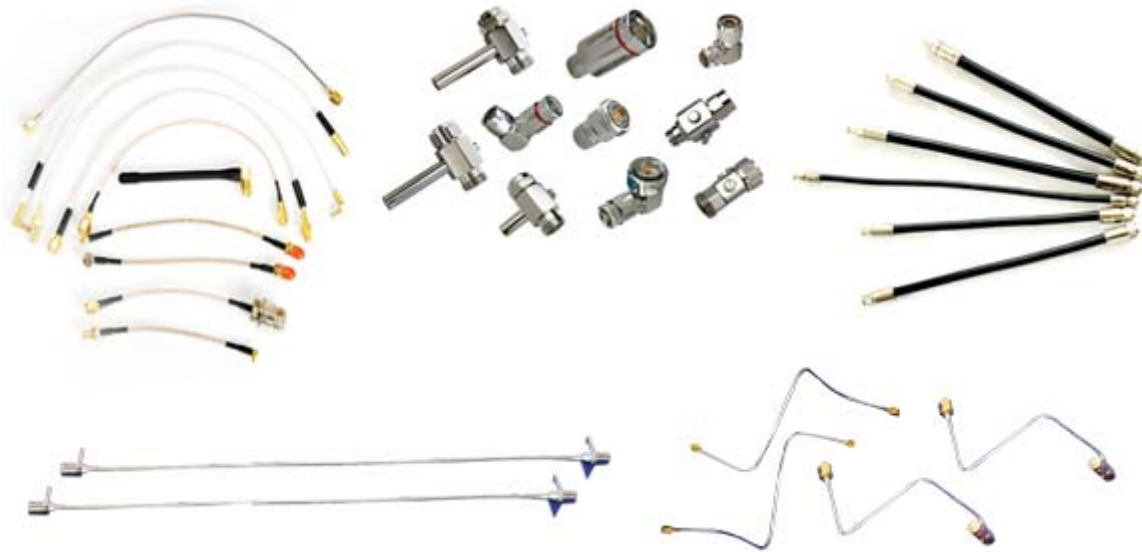
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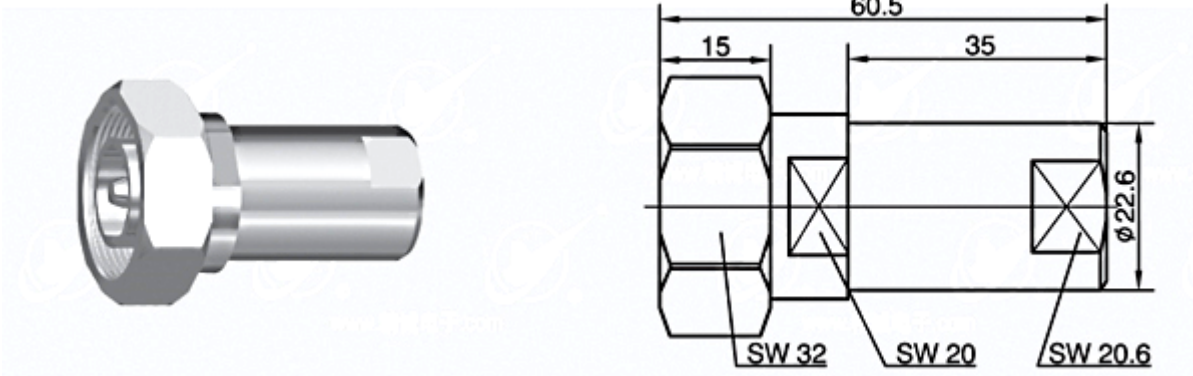
Data sheet

DIN Male Connectors for Coax Cables



We supply quality **Microwave Coaxial Connectors, Adapters, Cable Assemblies, DC Blocks, Shorts, Terminations, Attenuators, Phase Adjusters** and much more.

Now with over **2,500** product types!



Code : DJC3.650.453

Type : 7/16-J-1/2-50A-2

Category : CONNECTORS FOR FLEXIBLE CABLE

Cable : 1/2"Flexible Cable

