



COMMUNICATION CABLES

MEGHNA STAR CABLES supplies a wide range of communication cables that serve different functions in the communication chain from the exchange station to the subscriber's household.

Jumper wires are typically used to complete a circuit or to bypass a break in a circuit by telecommunication service providers.

Multi-pair telephone cables are used in the distribution network between the exchange station and the subscriber household.

CO-AXIAL

(Cu/Foam PE/SC/PVC)

Foam PE Insulated, Cu Braided screen, PVC Sheathed Cable



CONSTRUCTION DESIGN

Conductor:	Solid Plain annealed copper to ASTM B3
Insulation material:	Foamed Polyethylene (PE), to BS 6234
Insulation color:	Natural
Wrapped:	Copolymer Al foil
Screen:	Copper or Tinned Copper Braided
Sheath:	Polyethylene (PE), to BS 6234
Sheath color:	Black
Cable marking:	MEGHNA STAR CABLES Co-Axial RG 6/U

APPLICATION

The tried and true coaxial cable can transmit all kinds of signals - HDTV, digital video, composite video, component video, S-video, FM, and more. We have several options of coax to choose from for wherever you need to use them: schools, hospitals, security systems, or even just connecting your home cable TV Indoor & outdoor.

STANDARD

VDE 0816

PHYSICAL DATA

ELECTRICAL DATA

Code name	Nominal cross sectional area of conductor mm ²	No. of strands & diameter of wire mm	Approx. Diameter of insulated core mm	Nominal thickness of sheath mm	Shield materials	Shield coverage factor %	Approx. Overall diameter mm	Approx. Weight of cable kg/km	Max. D.C resistance of conductor at 20°C Ω/km	Impedance ohm
Low Loss 50 Ohm Wireless RF Transmission Cable										
RG 174	0.16	1/0.45	1.55	0.8	Al Mylar+ATC	85	2.90	24	110.99	50
RG 58	0.65	1/0.91	2.95	0.9	Al Mylar+ATC	85	5.00	50	27.32	50
RG 8X	1.65	1/1.45	3.81	1.0	Al Mylar+ATC	85	6.20	90	10.76	50
75 Ohm analog and digital video cable										
3/C	0.2	1/0.50	3.00	0.9	PAC	60	5.40	34	88.79	75
4/C	0.42	1/0.73	3.81	1.0	PAC	60	6.35	50	42.28	75
5/C	0.64	1/0.90	4.20	1.2	PAC	60	7.20	62	27.75	75
6/C	1.23	1/1.25	5.46	1.2	PAC	60	8.20	67	14.44	75
RG 59/U	0.52	1/0.81	3.68	1.0	Al Mylar+PAC	60	6.15	55	34.15	75
RG 6/U	0.78	1/1.02	4.30	1.2	Al Mylar+PAC	60	7.50	80	22.77	75
RG 11/U	2.09	1/1.63	6.65	1.2	Al Mylar+PAC	60	9.80	110	8.50	75

Characteristics



Installation condition



HOUSE WIRING TELEPHONE CABLE

**Multipair (Cu/PE/PVC)
PE Insulated PVC Sheathed Cable**



CONSTRUCTION DESIGN

Conductor:	Solid Plain annealed copper to ASTM B3
Insulation material:	Polyethylene (PE), to BS 6234
Insulation color:	See color chart of technical information
Sheath:	PVC-FR, TM-1-FR to BS 7655
Sheath color:	Grey or Black
Cable marking:	MEGHNA STAR CABLES Telephone Ccable 10 Pair

APPLICATION

Suitable for telecommunication and signal circuits. They are suitable for expose or concealed conductor installation permissible voltage 200 V.

VOLTAGE GRADE

U₀/U (U_m) 200 V

STANDARD

ITS S/WJ-1D1C

Number of pair (core)	PHYSICAL DATA						ELECTRICAL DATA
	Nominal Cross sectional area of conductor	No. of stands & diameter of wire	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. Weight of cable	Max. D.C resistance of conductor at 20°C
	mm ²	nos./mm	mm	mm	mm	mm	Ω/km
1 Pair (2 core)	0.125	1/0.4	0.25	0.8	4.0	18	150
2 Pair (4 core)	0.125	1/0.4	0.25	0.8	4.3	24	150
3 Pair (6 core)	0.125	1/0.4	0.25	1	5.4	35	150
4 Pair (8 core)	0.125	1/0.4	0.25	1.2	6.5	47	150
5 Pair (10 core)	0.125	1/0.4	0.25	1.2	7.0	53	150
6 Pair (12 core)	0.125	1/0.4	0.25	1.4	7.7	67	150
7 Pair (14 core)	0.125	1/0.4	0.25	1.4	8.1	74	150
8 Pair (16 core)	0.125	1/0.4	0.25	1.4	8.3	80	150
10 Pair (20 core)	0.125	1/0.4	0.25	1.4	9.3	97	150
15 Pair (30 core)	0.125	1/0.4	0.25	1.4	11.0	130	150
20 Pair (40 core)	0.125	1/0.4	0.25	1.6	13.0	170	150
30 Pair (60 core)	0.125	1/0.4	0.25	1.6	14.5	228	150
1 Pair (2 core)	0.282	1/0.6	0.25	0.8	4.3	22	66.6
2 Pair (4 core)	0.282	1/0.6	0.25	0.8	4.6	31	66.6
3 Pair (6 core)	0.282	1/0.6	0.25	1	5.7	44	66.6
4 Pair (8 core)	0.282	1/0.6	0.25	1.2	6.8	70	66.6
5 Pair (10 core)	0.282	1/0.6	0.25	1.2	7.2	75	66.6
6 Pair (12 core)	0.282	1/0.6	0.25	1.4	8.2	90	66.6
7 Pair (14 core)	0.282	1/0.6	0.25	1.4	8.5	99	66.6
8 Pair (16 core)	0.282	1/0.6	0.25	1.4	9.5	105	66.6
10 Pair (20 core)	0.282	1/0.6	0.25	1.4	10.4	132	66.6
15 Pair (30 core)	0.282	1/0.6	0.25	1.4	12.0	185	66.6
20 Pair (40 core)	0.282	1/0.6	0.25	1.6	14.2	245	66.6
25 Pair (50 core)	0.282	1/0.6	0.25	1.6	15.7	300	66.6
30 Pair (60 core)	0.282	1/0.6	0.25	1.6	16.8	352	66.6
40 Pair (80 core)	0.282	1/0.6	0.25	1.6	18.3	438	66.6
50 Pair (100 core)	0.282	1/0.6	0.25	1.6	20.0	525	66.6
100 Pair (200 core)	0.282	1/0.6	0.25	1.6	26.6	935	66.6

Characteristics



Installation condition



A-2Y (L) 2Y

SUBSCRIBER CABLE (UNFILLED) (Cu/PE/AF/PE) PE Insulated, Al foil screen, PVC Sheathed Cable



CONSTRUCTION DESIGN

Conductor:	Solid Plain annealed copper to ASTM B3
Insulation material:	Polyethylene (PE), to BS 6234
Insulation color:	See color chart of technical information
Identification strip:	Polyester Tape
Wrapped:	PT Foil
Screen:	Copolymer Al foil
Sheath:	Polyethylene (PE), to BS 6234
Sheath color:	Black
Cable marking:	MEGHNA STAR CABLES A-2Y (L) 2Y 10 Pair

APPLICATION

Suitable for telecommunication and signal circuits. They are suitable for use in underground conduits.

VOLTAGE GRADE

U₀/U (U_m) 200 V

STANDARD

VDE 0816

Number of pair (core)	PHYSICAL DATA						ELECTRICAL DATA
	diameter of wire	Nominal thickness of insulation	Approx. Diameter over Al foil	Nominal thickness of sheath	Approx. Overall diameter	Approx. Weight of cable	Max. D.C resistance of conductor at 20°C
	mm	mm	mm	mm	mm	mm	Ω/km
10 Pair	0.4	0.25	6.2	1.8	10.2	100	150
	0.5	0.25	6.8	1.8	11.0	120	95.9
	0.6	0.3	8	1.8	12.5	150	66.6
	0.9	0.45	11.7	1.8	16.0	270	28
20 Pair	0.4	0.25	8.4	1.8	12.3	145	150
	0.5	0.25	9.2	1.8	13.5	185	95.9
	0.6	0.3	10.9	1.8	15.0	241	66.6
	0.9	0.45	16	1.8	20.5	460	28
30 Pair	0.4	0.25	10.1	1.8	14.0	190	150
	0.5	0.25	11.1	1.8	15.1	247	95.9
	0.6	0.3	13.2	1.8	17.5	327	66.6
	0.9	0.45	19.5	1.8	24.0	640	28
40 Pair	0.4	0.25	11.6	1.8	15.5	240	150
	0.5	0.25	12.8	1.8	16.7	308	95.9
	0.6	0.3	15.1	1.8	19.5	410	66.6
	0.9	0.45	22.5	1.8	27.0	816	28
50 Pair	0.4	0.25	12.8	1.8	16.5	280	150
	0.5	0.25	14.2	1.8	18.1	366	95.9
	0.6	0.3	16.8	1.8	20.8	492	66.6
	0.9	0.45	25	1.8	29.5	992	28
70 Pair	0.4	0.25	15	1.8	19.0	360	150
	0.5	0.25	16.6	1.8	20.5	480	95.9
	0.6	0.3	19.8	1.8	24.0	650	66.6
	0.4	0.25	17.8	1.8	21.0	475	150
100 Pair	0.5	0.25	19.7	1.8	23.5	648	95.9
	0.6	0.3	23.5	1.8	27.0	880	66.6

Characteristics



Installation condition



DROP WIRE

2 Core (Cu/PE)

Polyethylene (PE) insulated, two conductors placed parallel



CONSTRUCTION DESIGN

Conductor:	Solid hard drawn copper, ASTM B1
Insulation material:	Polyethylene (PE), BS 6234
Insulation color:	Black
Cable marking:	MEGHNA STAR CABLES

APPLICATION

These cables are intended for connecting telephone aerial cable to the subscriber's premises

VOLTAGE GRADE

U₀/U (U_m) 200 V

STANDARD

ITS S/WJ-1D1C

PHYSICAL DATA					ELECTRICAL DATA
Number of core (pair)	No. of stands & diameter of wire	Nominal thickness of insulation	Approx. Overall diameter	Approx. Weight of cable	Max. D.C resistance of conductor at 20°C
	nos./mm	mm	mm	kg/km	ohm/km
2 core (1 pair)	1/0.6	0.787	2.32x4.11	12	66.6
2 core (1 pair)	1/0.9	1.05	3.0x6.30	25	28.0

JUMPER WIRE

(Cu/PE)

Polyethylene (PE) insulated, Cores are uniformly twisted together



CONSTRUCTION DESIGN

Conductor:	Flexible annealed copper, Class 5 to IEC 60228
Insulation material:	Polyethylene (PE), to BS 6234
Cable marking:	MEGHNA STAR CABLES

APPLICATION

Suitable for use in distribution frames for wiring the speech and signalling connections.

VOLTAGE GRADE

U₀/U (U_m) 200 V

STANDARD

ITS S/WJ-1D1C

PHYSICAL DATA					ELECTRICAL DATA
Number of core (pair)	Nominal Cross sectional area	No. of stands & diameter of wire	Nominal thickness of insulation	Approx. Overall diameter	Approx. Weight of cable
	mm ²	nos./mm	mm	mm	kg/km
2 core (1 pair)	0.123	9/0.132	0.2	2.30	6
4 core (2 pair)	0.123	9/0.132	0.2	2.80	12
6 core (3 pair)	0.123	9/0.132	0.2	3.50	18
8 core (4 pair)	0.123	9/0.132	0.2	3.65	24
10 core (5 pair)	0.123	9/0.132	0.2	4.00	30

Characteristics



Installation condition

