

ESI 09/6 PVC/SCREENED/PVC RP & XLPE/SCREENED/LSZH.

Solid tinned annealed copper conductors, PVC insulated/Polyester taped/CAM (Collective Aluminium - Mylar) screened including drain wire/PVC RP sheathed or XLPE insulated/Polyester taped/CAM/LSZH (Low Smoke Zero Halogen) sheathed. 110 volts grade a.c or 150 volts grade d.c to ESI 09-6 (where applicable). Sheath Colour: Black

MULTIPAIR CABLES	CONDUCTOR SIZE (MM)	NO OF PAIRS	NOMINAL DIMENSIONS (MM), WEIGHTS											
			1	2	5	10	15	20	25	30	40	60	100	200
PVC INSULATED COLLECTIVELY SCREENED PVC RP SHEATHED	1/0.8mm PVC RP	Over pairs	2.8	4.8	6.4	9.0	10.6	12.2	-	-	17.3	21.2	27.3	38.6
		Over screen	3.1	5.1	6.9	9.5	11.1	12.7	-	-	17.8	21.7	27.8	39.1
		Overall Diam	4.7	6.9	8.9	11.7	13.5	15.1	-	-	20.6	24.9	31.4	43.7
		Weight Kg/KM	30	55	112	197	277	352	-	-	660	966	1560	3030
XLPE INSULATED COLLECTIVELY SCREENED LSZH SHEATHED	1/0.8mm LSZH	Over pairs	2.8	4.8	6.4	9.0	10.6	12.2	-	-	17.3	21.2	27.3	38.6
		Over screen	3.1	5.1	6.9	9.5	11.1	12.7	-	-	17.8	21.7	27.8	39.1
		Overall Diam	4.7	6.9	8.9	11.7	13.5	15.1	-	-	20.6	24.9	31.4	43.7
		Weight Kg/KM	30	55	112	197	277	352	-	-	660	966	1560	3030
PVC INSULATED COLLECTIVELY SCREENED PVC RP SHEATHED	1/0.9mm PVC RP	Over pairs	3.1	3.8	6.8	10.7	11.4	13.8	15.3	16.5	20.0	21.8	-	-
		Over screen	4.3	5.0	8.0	11.9	12.6	15.0	16.5	17.7	21.2	23.0	-	-
		Overall Diam	5.9	6.6	10.0	13.1	15.0	17.4	19.1	20.5	24.0	26.2	-	-
		Weight Kg/KM	42	55	134	222	316	401	491	584	750	954	-	-

Operating Temperature: PVC Maximum 70°C, Minimum bending 0°C
LSZH Maximum 90°C, Minimum bending -15°C

Minimum bending radius: 8 x overall diameter.

Oxygen Index: PVC 30%, HCL emissions 15% maximum.

LSZH HCL emissions 0.5% in accordance with BS6424: Pt1, Completed cables comply with the requirements of fire test BSEN50266-1:2001 (previously BS4066:Pt3)

Electrical Characteristics:

1/0.8 **1/0.9**

Maximum conductor loop KM resistance @ 20°C. 73.6 OHMS /KM 59.4 OHMS/KM

Maximum insulation resistance @ 20°C. 80 megaohms/KM 80 megaohms/KM

Test voltage (dur 60s) 2 kV a.c. between conductors.

Conductor dimensions:

Diameter of conductor: 0.8mm 0.9mm
Size of conductor: 0.5sq.mm 0.65sq.mm
Radial thickness of insulation: 0.3mm 0.3mm
Nominal diam of core: 1.4mm 1.5mm

Conductor identification: Generally in accordance with ESI 09-6

