



Application

- Signal transmission.
- At instrumentation and control engineering.
- At industrial electronics.
- Indoor communication systems.
- Indoor sound systems.
- Security and fire alarm systems.
- In places where human life, valuable materials and equipments need to be protected.

Cable Construction

- 1 - Conductor : Stranded electrolytic copper conductor (Class 5) (IEC 60228, EN 60228, DIN VDE 0295)
- 2 - Insulation : Cross-linked polymer compound in ceramic form (DIN 47100)
- 3 - Stranding : In layers
- 4 - Wrapping : Polyester tape, glass yarn tape
- 5 - Screen : Tinned copper earthing wire, Al/PET tape
- 6 - Outer Jacket : UV resistant halogen-free outer jacket. RAL 2008 (Orange)

Technical Characteristics

Conductor Diameter	Conductor Resistance Ω/km (20 °C)	Insulation Resistance $\text{M}\Omega/\text{km}$ (500 V DC)	Mutual Capacitance nF/km (800 Hz)	Current Carrying Capacity A	Operating Voltage V DC	Test Voltage V (DC, 1 minute)
0.50 mm ²	39	20	120	9	300	2000
0.75 mm ²	26	20	120	12	300	2000
1.00 mm ²	19.5	20	130	15	300	2000
1.5 mm ²	13.3	20	140	18	300	2000
2.5 mm ²	7.98	20	150	26	300	2000

Mechanical Characteristics

Bending Radius	Temperature Range Operating
10xD mm	-40°C~+70°C

Standards

Smoke Density Test	Corrosive Gas Test	Halogen-free Test	Flame Retardancy Test	Flame Propagation Test
IEC 61034-2, VDE 0482-1034-2, BS EN 61034-2	IEC 60754-2, VDE 0482-267-2-3, BS EN 50267-2-3	IEC 60754-1, VDE 0482-267-2-1, EN 50267-2-1, BS EN 50267-2-1	IEC 60332-1-2, VDE 0482-332-1-2, BS EN 60332-1-2	IEC 60332-3-24, VDE 0482-332-3-24, BS EN 60332-3-24
Circuit Integrity Test (FE180)			Circuit Integrity with Shock Test (PH120)	
IEC 60331-23			EN 50200, VDE 0482-200, BS EN 50200	

Notes

Reference Standard: DIN VDE 0812

LIH(Sİ)H (FE180 / PH120)

Part Number	Conductor Count	Conductor Diameter (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.545.2.4.3.0050.0.0002	2	0.5	5.8	11.1	34	100/500/1000
3.545.2.4.3.0050.0.0003	3	0.5	6.1	15.5	47	100/500/1000
3.545.2.4.3.0050.0.0004	4	0.5	6.5	19.9	56	100/500/1000
3.545.3.4.3.0050.0.0005	5	0.5	7.1	24.3	67	100/500/1000
3.545.3.4.3.0050.0.0006	6	0.5	7.7	28.7	81	100/500/1000
3.545.3.4.3.0050.0.0007	7	0.5	7.7	33.2	84	100/500/1000
3.545.3.4.3.0050.0.0008	8	0.5	8.4	37.4	101	100/500/1000
3.545.3.4.3.0050.0.0009	9	0.5	9.6	41.8	115	100/500/1000
3.545.3.4.3.0050.0.0010	10	0.5	9.6	46.2	118	100/500/1000
3.545.3.4.3.0050.0.0012	12	0.5	10	55	136	100/500/1000
3.545.3.4.3.0050.0.0014	14	0.5	10.5	63.8	155	100/500/1000
3.545.3.4.3.0050.0.0016	16	0.5	11.1	72.6	171	100/500/1000
3.545.3.4.3.0050.0.0018	18	0.5	11.6	81.4	192	100/500/1000
3.545.3.4.3.0050.0.0019	19	0.5	11.6	85.8	195	100/500/1000
3.545.3.4.3.0050.0.0020	20	0.5	12.3	90.2	215	100/500/1000
3.545.3.4.3.0050.0.0021	21	0.5	12.3	94.6	227	100/500/1000
3.545.3.4.3.0050.0.0024	24	0.5	13.4	107.9	244	100/500/1000
3.545.3.4.3.0050.0.0025	25	0.5	13.6	112.3	265	100/500/1000
3.545.3.4.3.0050.0.0027	27	0.5	13.9	121.1	273	100/500/1000
Part Number	Conductor Count	Conductor Diameter (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.545.2.4.3.0075.0.0002	2	0.75	6.5	17.7	50	100/500/1000
3.545.2.4.3.0075.0.0003	3	0.75	6.8	24.3	61	100/500/1000
3.545.2.4.3.0075.0.0004	4	0.75	7.4	30.9	75	100/500/1000
3.545.3.4.3.0075.0.0005	5	0.75	8	37.5	91	100/500/1000
3.545.3.4.3.0075.0.0006	6	0.75	8.6	44.1	101	100/500/1000
3.545.3.4.3.0075.0.0007	7	0.75	8.6	50.7	111	100/500/1000
3.545.3.4.3.0075.0.0008	8	0.75	9.4	57.3	133	100/500/1000
3.545.3.4.3.0075.0.0009	9	0.75	10.8	63.9	151	100/500/1000
3.545.3.4.3.0075.0.0010	10	0.75	10.8	70.5	155	100/500/1000
3.545.3.4.3.0075.0.0012	12	0.75	11.2	83.7	179	100/500/1000
3.545.3.4.3.0075.0.0014	14	0.75	11.8	96.9	204	100/500/1000
3.545.3.4.3.0075.0.0016	16	0.75	12.3	110.1	226	100/500/1000
3.545.3.4.3.0075.0.0018	18	0.75	13	123.3	257	100/500/1000
3.545.3.4.3.0075.0.0019	19	0.75	13	129.9	262	100/500/1000
3.545.3.4.3.0075.0.0020	20	0.75	13.7	136.5	283	100/500/1000
3.545.3.4.3.0075.0.0021	21	0.75	13.7	143.1	285	100/500/1000
3.545.3.4.3.0075.0.0024	24	0.75	15.2	162.9	329	100/500/1000
3.545.3.4.3.0075.0.0025	25	0.75	15.2	169.5	348	100/500/1000
3.545.3.4.3.0075.0.0027	27	0.75	15.5	182.7	360	100/500/1000

LIH(Sİ)H (FE180 / PH120)

Part Number	Conductor Count	Conductor Diameter (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.545.2.4.3.0100.0.0002	2	1	6.9	21	57	100/500/1000
3.545.2.4.3.0100.0.0003	3	1	7.2	29.2	70	100/500/1000
3.545.3.4.3.0100.0.0004	4	1	7.8	37.5	86	100/500/1000
3.545.3.4.3.0100.0.0005	5	1	8.6	45.8	106	100/500/1000
3.545.3.4.3.0100.0.0006	6	1	9.2	54	124	100/500/1000
3.545.3.4.3.0100.0.0007	7	1	9.2	62.3	130	100/500/1000
3.545.3.4.3.0100.0.0008	8	1	10.1	70.5	155	100/500/1000
3.545.3.4.3.0100.0.0009	9	1	11.6	78.7	176	100/500/1000
3.545.3.4.3.0100.0.0010	10	1	11.6	87	182	100/500/1000
3.545.3.4.3.0100.0.0012	12	1	12	103.5	210	100/500/1000
3.545.3.4.3.0100.0.0014	14	1	12.6	120	240	100/500/1000
3.545.3.4.3.0100.0.0016	16	1	13.3	136.5	268	100/500/1000
3.545.3.4.3.0100.0.0018	18	1	14	153	304	100/500/1000
3.545.3.4.3.0100.0.0019	19	1	14	161.3	310	100/500/1000
3.545.3.4.3.0100.0.0020	20	1	14.7	169.5	335	100/500/1000
3.545.3.4.3.0100.0.0021	21	1	14.7	177.8	338	100/500/1000
3.545.3.4.3.0100.0.0024	24	1	16.3	202.5	387	100/500/1000
3.545.3.4.3.0100.0.0025	25	1	16.3	210.8	409	100/500/1000
3.545.3.4.3.0100.0.0027	27	1	16.6	227.3	423	100/500/1000
Part Number	Conductor Count	Conductor Diameter (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.545.2.4.3.0150.0.0002	2	1.5	7.5	30.2	71	100/500/1000
3.545.2.4.3.0150.0.0003	3	1.5	7.9	43.1	89	100/500/1000
3.545.2.4.3.0150.0.0004	4	1.5	8.6	56	111	100/500/1000
3.545.3.4.3.0150.0.0005	5	1.5	9.3	68.8	136	100/500/1000
3.545.3.4.3.0150.0.0006	6	1.5	10.1	81.7	160	100/500/1000
3.545.3.4.3.0150.0.0007	7	1.5	10.1	94.5	170	100/500/1000
3.545.3.4.3.0150.0.0008	8	1.5	11	107.3	203	100/500/1000
3.545.3.4.3.0150.0.0009	9	1.5	12.7	120.2	230	100/500/1000
3.545.3.4.3.0150.0.0010	10	1.5	12.7	133.1	239	100/500/1000
3.545.3.4.3.0150.0.0012	12	1.5	13.2	158.8	278	100/500/1000
3.545.3.4.3.0150.0.0014	14	1.5	13.9	184.5	318	100/500/1000
3.545.3.4.3.0150.0.0016	16	1.5	14.5	210.2	355	100/500/1000
3.545.3.4.3.0150.0.0018	18	1.5	15.4	235.9	403	100/500/1000
3.545.3.4.3.0150.0.0019	19	1.5	15.4	248.8	413	100/500/1000
3.545.3.4.3.0150.0.0020	20	1.5	16.2	261.7	446	100/500/1000
3.545.3.4.3.0150.0.0021	21	1.5	16.2	274.5	451	100/500/1000
3.545.3.4.3.0150.0.0024	24	1.5	18	313.1	520	100/500/1000
3.545.3.4.3.0150.0.0025	25	1.5	18	326	549	100/500/1000
3.545.3.4.3.0150.0.0027	27	1.5	18.3	351.7	571	100/500/1000

LIH(Sİ)H (FE180 / PH120)

Part Number	Conductor Count	Conductor Diameter (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.545.2.4.3.0250.0.0002	2	2.5	8.7	47.4	97	100/500/1000
3.545.2.4.3.0250.0.0003	3	2.5	9.1	68.8	126	100/500/1000
3.545.2.4.3.0250.0.0004	4	2.5	10	90.2	159	100/500/1000
3.545.3.4.3.0250.0.0005	5	2.5	11	111.7	198	100/500/1000
3.545.3.4.3.0250.0.0006	6	2.5	11.9	133.1	235	100/500/1000
3.545.3.4.3.0250.0.0007	7	2.5	11.9	154.5	252	100/500/1000
3.545.3.4.3.0250.0.0008	8	2.5	13	175.9	300	100/500/1000
3.545.3.4.3.0250.0.0009	9	2.5	15.1	197.4	340	100/500/1000
3.545.3.4.3.0250.0.0010	10	2.5	15.1	218.8	356	100/500/1000
3.545.3.4.3.0250.0.0012	12	2.5	15.6	261.7	416	100/500/1000
3.545.3.4.3.0250.0.0014	14	2.5	16.5	304.5	478	100/500/1000
3.545.3.4.3.0250.0.0016	16	2.5	17.4	347.4	536	100/500/1000
3.545.3.4.3.0250.0.0018	18	2.5	18.4	390.2	610	100/500/1000
3.545.3.4.3.0250.0.0019	19	2.5	18.4	411.7	626	100/500/1000
3.545.3.4.3.0250.0.0020	20	2.5	19.4	433.1	677	100/500/1000
3.545.3.4.3.0250.0.0021	21	2.5	19.4	454.5	686	100/500/1000
3.545.3.4.3.0250.0.0024	24	2.5	21.6	518.8	784	100/500/1000
3.545.3.4.3.0250.0.0025	25	2.5	21.6	540.3	838	100/500/1000
3.545.3.4.3.0250.0.0027	27	2.5	22	583.1	873	100/500/1000