

COPPER CONDUCTOR CABLES

◆ SOLAR CABLE AND LSZH BUILDING WIRE

TIS 62930-2564 PHOTOVOLTAIC CABLE AND LSHF CABLE ◆

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0.6/1 KV-FRLH-IE

0.6/1 kV 90°C POLYETHYLENE INSULATED FLAME RETARDANT WITH LOW SMOKE AND ZERO HALOGEN POWER CABLE



CABLE STRUCTURE		TECHNICAL DATA	
Conductor	: Non-compacted and compacted round annealed copper.	Rated voltage	: 600 Volts between Line-to-Earth : 1,000 Volts between Line-to-Line
Insulation	: Flame retardant Low smoke & halogen free (LSZH)	Testing voltage	: 3,500 Volts
Core identification	: Single core Black or Orange	Reference standard	
Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 1,200 Volts	Construction	: BS EN 50525-3-41
		Flame retardant	: IEC 60332-1-2, TIS 2756 : BS EN IEC 60332-3-22 Category A : BS EN IEC 60332-3-24 Category C
		Acid gas emission	: BS EN 60754-1, BS EN 60754-2, TIS 2757
		Smoke emission	: BS EN 61034-2, TIS 2758 : Defence standard 02-713
APPLICATION			
For fixed installation in electrical cabinet, conduit and wire way which provide flame retardant, low smoke and non toxic emission under fire.			

Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20° C maximum (Ω/km)	Insulation resistance at 90° C minimum (MΩ.km)	Continuous current rating in free air at 40° C maximum (A)	Continuous current rating in conduit in free air at 40° C maximum (A)		Cable weight approx. (kg/km)	Standard length (m)
							1 Phase	3 Phase		
1.5	1	0.7	3.2	12.1	0.0100	29	21	18	22	100/C
2.5	1	0.8	4.0	7.41	0.0090	39	28	25	35	100/C
4	1	0.8	4.5	4.61	0.0077	52	38	34	50	100/C
6	2	0.8	5.1	3.08	0.0065	66	49	44	70	100/C
10	2	1.0	6.0	1.83	0.0065	90	68	60	110	100/C
16	2	1.0	7.0	1.15	0.0050	120	91	80	170	100/C
25	2	1.2	8.6	0.727	0.0050	161	121	106	260	100/C
35	2	1.2	9.7	0.524	0.0043	199	149	131	360	100/C
50	2	1.4	11.5	0.387	0.0043	243	180	159	480	100/C
70	2	1.4	13.0	0.268	0.0035	308	230	202	650	500/D
95	2	1.6	15.5	0.193	0.0035	385	278	245	950	500/D
120	2	1.6	17.0	0.153	0.0032	449	322	284	1,200	500/D
150	2	1.8	18.5	0.124	0.0032	515	358	311	1,500	500/D
185	2	2.0	21.0	0.0991	0.0032	598	409	349	1,800	500/D
240	2	2.2	24.0	0.0754	0.0032	716	480	410	2,400	500/D
300	2	2.4	26.0	0.0601	0.0030	830	549	468	3,000	500/D
400	2	2.6	29.0	0.0470	0.0028	970	622	531	3,800	500/D
500	2	2.8	33.0	0.0366	0.0028	1138	713	606	4,900	500/D

C: Packing in coil
D: Packing in drum

0.6/1 kV FRC-LSHF

0.6/1 kV FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE INSULATED CABLES



CABLE STRUCTURE		TECHNICAL DATA	
Conductor	: Concentric stranded or Compacted stranded copper wires	Reference standard	
Fire barrier tape	: Mica tape	Construction	: BS EN 50525-3-41
Insulation	: low smoke & halogen free Polyethylene Insulation , Orange colour	Circuit integrity	: TIS 3197 : BS 6387 Categories C,W,Z : IEC 60331-21
Classification	: Mazimum conductor temperature : 90°C : Maximum circuit voltage : 1,000 V : AC test voltage : 3,500 V	Flame propagation	: IEC 60332-1-2, TIS 2755 : IEC 60332-3-24 Category C : IEC 60332-3-22 Category A
		Acid gas emission	: IEC 60754-2, TIS 2757
		Smoke emission	: IEC 61034-2, TIS 2758
		APPLICATION	
		Preferably used for installation into trunking and conduit which provide flame retardant, low smok & corrosive gases properties and maintain circuit integrity in case of fire.	

Number of core	Conductor			Thickness of insulation Nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20° C maximum (Ω/km)	Insulation resistance at 90° C minimum (MΩ.km)	Current rating in free air at 40° C ambient (A)	Cable weight approx. (kg/km)	Standard length (m)
	cross sectional area (mm ²)	Number of wires (Min)	Diameter Approx. (mm)							
1	1.5	7	1.53	0.7	4.0	12.1	0.010	24	25	100/C
1	2.5	7	1.98	0.8	4.5	7.41	0.009	33	40	100/C
1	4	7	2.49	0.8	5.0	4.61	0.0077	45	55	100/C
1	6	7	3.09	0.8	5.5	3.08	0.0065	57	75	100/C
1	10	6	3.72	1.0	6.5	1.83	0.0065	79	120	100/C
1	16	6	4.69	1.0	7.5	1.15	0.0050	105	180	100/C
1	25	6	5.90	1.2	9.5	0.727	0.0050	140	280	100/C
1	35	6	6.95	1.2	10.5	0.524	0.0043	175	375	100/C
1	50	6	8.33	1.4	12.5	0.387	0.0043	215	510	100/C
1	70	12	9.73	1.4	13.5	0.268	0.0035	275	715	500/D
1	95	15	11.43	1.6	16.0	0.193	0.0035	340	985	500/D
1	120	18	12.95	1.6	17.5	0.153	0.0032	400	1,230	500/D
1	150	18	14.27	1.8	19.5	0.124	0.0032	460	1,525	500/D
1	185	30	15.98	2.0	21.5	0.0991	0.0032	530	1,900	500/D
1	240	34	18.47	2.2	24.5	0.0754	0.0032	640	2,490	500/D
1	300	34	20.68	2.4	27.0	0.0601	0.0030	745	3,115	500/D
1	400	53	23.39	2.6	30.0	0.0470	0.0028	870	3,965	500/D

C: Packing in coil

D: Packing in drum



0.6/1 KV FRC-XLPE/LSHF

0.6/1 kV XLPE INSULATED AND FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE SHEATHED CABLES



CABLE STRUCTURE		TECHNICAL DATA	
Conductor	: Concentric stranded or Compacted stranded copper wires	Reference standard	
Fire barrier tape	: Mica tape	Construction	: IEC 60228, IEC 60502-1
Insulation	: Cross-linked polyethylene (XLPE), Natural colour	Circuit integrity	: BS 6387 Categories C,W,Z : IEC 60331-21, TIS 3197
Sheath	: Low smoke & halogen free compound (LSHF), Orange colour.	Flame propagation	: IEC 60332-1-2, TIS 2755 : IEC 60332-3-24 Category C : IEC 60332-3-22 Category A
Classification	: Maximum conductor temperature : 90°C : Maximum circuit voltage : 1,000 V : AC test voltage : 3,500 V	Acid gas emission	: IEC 60754-2, TIS 2757
		Smoke emission	: IEC 61034-2, TIS 2758
		APPLICATION	
		Preferably used for installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.	

Number of core	Conductor			Thickness of insulation Nominal (mm)	Thickness of sheath Nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20° C maximum (MΩ/km)	Current rating in free air at 40° C ambient (A)	Cable weight approx. (kg/km)	Standard length (m)
	cross sectional area (mm ²)	Number of wires (Min)	Diameter Approx. (mm)							
1	1.5	7	1.53	0.7	1.4	7.0	12.1	27	60	100/C
1	2.5	7	1.98	0.7	1.4	7.5	7.41	38	70	100/C
1	4	7	2.49	0.7	1.4	8.0	4.61	51	90	100/C
1	6	7	3.09	0.7	1.4	8.5	3.08	66	110	100/C
1	10	6	3.72	0.7	1.4	9.5	1.83	92	160	100/C
1	16	6	4.69	0.7	1.4	10.0	1.15	124	220	100/C
1	25	6	5.90	0.9	1.4	12.0	0.727	166	320	100/C
1	35	6	6.95	0.9	1.4	13.0	0.524	206	420	100/C
1	50	6	8.33	1.0	1.4	14.5	0.387	259	550	100/C
1	70	12	9.73	1.1	1.4	16.0	0.268	321	760	500/D
1	95	15	11.43	1.1	1.5	18.0	0.193	391	1,030	500/D
1	120	18	12.95	1.2	1.5	20.0	0.153	455	1,280	500/D
1	150	18	14.27	1.4	1.6	22.0	0.124	525	1,580	500/D
1	185	30	15.98	1.6	1.6	24.0	0.0991	602	1,950	500/D
1	240	34	18.47	1.7	1.7	27.0	0.0754	711	2,540	500/D
1	300	34	20.68	1.8	1.8	29.5	0.0601	821	3,160	500/D
1	400	53	23.39	2.0	1.9	33.0	0.0470	988	4,010	500/D

C: Packing in coil

D: Packing in drum

0.6/1 KV FRC-XLPE/LSHF

0.6/1 kV XLPE INSULATED AND FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE SHEATHED CABLES



CABLE STRUCTURE		TECHNICAL DATA	
Conductor	: Concentric stranded or Compacted stranded copper wires	Reference standard	
Fire barrier tape	: Mica tape	Construction	: IEC 60228, IEC 60502-1
Insulation	: Cross-linked polyethylene (XLPE) Blue, Brown colour or requested colour	Circuit integrity	: BS 6387 Categories C, W, Z : IEC 60331-21, TIS 3197
Filler	: LSHF rod	Flame propagation	: IEC 60332-1-2, TIS 2755 : IEC 60332-3-24 Category C
Binding tape	: Fiberglass tape		: IEC 60332-3-22 Category A
Sheath	: Low smoke & halogen free compound (LSHF), Orange colour.	Acid gas emission	: IEC 60754-2, TIS 2757
Classification	: Maximum conductor temperature : 90°C : Maximum circuit voltage : 1,000 V : AC test voltage : 3,500 V	Smoke emission	: IEC 61034-2, TIS 2758
		APPLICATION	
		Preferably used for installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.	

Number of core	Conductor			Thickness of insulation Nominal (mm)	Thickness of sheath Nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20° C maximum (Ω/km)	Current rating in free air at 40° C ambient (A)	Cable weight approx. (kg/km)	Standard length (m)
	cross sectional area (mm ²)	Number of wires (Min)	Diameter Approx. (mm)							
2	1.5	7	1.53	0.7	1.8	13.0	12.1	24	160	500/D
2	2.5	7	1.98	0.7	1.8	13.5	7.41	33	190	500/D
2	4	7	2.49	0.7	1.8	15.0	4.61	44	250	500/D
2	6	7	3.09	0.7	1.8	16.0	3.08	57	310	500/D
2	10	6	3.72	0.7	1.8	17.0	1.83	78	410	500/D
2	16	6	4.69	0.7	1.8	19.0	1.15	105	560	500/D
2	25	6	5.90	0.9	1.8	22.5	0.727	135	820	500/D
2	35	6	6.95	0.9	1.8	25.0	0.524	168	1,070	500/D
2	50	6	8.33	1.0	1.8	28.0	0.387	212	1,400	500/D
2	70	12	9.73	1.1	1.8	31.5	0.268	263	1,900	500/D
2	95	15	11.43	1.1	1.9	35.0	0.193	321	2,540	500/D
2	120	18	12.95	1.2	2.0	38.5	0.153	373	3,160	500/D
2	150	18	14.27	1.4	2.1	42.5	0.124	431	3,880	400/D
2	185	30	15.98	1.6	2.3	47.5	0.0991	493	4,840	400/D
2	240	34	18.47	1.7	2.5	53.0	0.0754	584	6,260	300/D
2	300	34	20.68	1.8	2.6	58.5	0.0601	674	7,730	250/D
2	400	53	23.39	2.0	2.9	65.5	0.0470	812	9,840	200/D

D: Packing in drum

0.6/1 KV FRC-XLPE/LSHF

0.6/1 kV XLPE INSULATED AND FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE SHEATHED CABLES



CABLE STRUCTURE		TECHNICAL DATA	
Conductor	: Concentric stranded or Compacted stranded copper wires	Reference standard	
Fire barrier tape	: Mica tape	Construction	: IEC 60228, IEC 60502-1
Insulation	: Cross-linked polyethylene (XLPE) Brown, Black, Grey colour or requested colour	Circuit integrity	: BS 6387 Categories C,W,Z : IEC 60331-21, TIS 3197
Filler		Flame propagation	: IEC 60332-1-2, TIS 2755 : IEC 60332-3-24 Category C
Binding tape	: Fiberglass tape		: IEC 60332-3-22 Category A
Sheath	: Low smoke & halogen free compound (LSHF), Orange colour.	Acid gas emission	: IEC 60754-2, TIS 2757
Classification	: Maximum conductor temperature : 90°C : Maximum circuit voltage : 1,000 V : AC test voltage : 3,500 V	Smoke emission	: IEC 61034-2, TIS 2758
		APPLICATION	
		Preferably used for installation into conduit and surface wiring which provide flame retardant, low smok & corrosive gases properties and maintain circuit integrity in case of fire.	

Number of core	Conductor			Thickness of insulation Nominal (mm)	Thickness of sheath Nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20° C maximum (Ω/km)	Current rating in free air at 40° C ambient (A)	Cable weight approx. (kg/km)	Standard length (m)
	cross sectional area (mm ²)	Number of wires (Min)	Diameter Approx. (mm)							
3	1.5	7	1.53	0.7	1.8	13.5	12.1	21	190	500/D
3	2.5	7	1.98	0.7	1.8	14.5	7.41	29	240	500/D
3	4	7	2.49	0.7	1.8	15.5	4.61	38	300	500/D
3	6	7	3.09	0.7	1.8	17.0	3.08	49	380	500/D
3	10	6	3.72	0.7	1.8	18.0	1.83	68	520	500/D
3	16	6	4.69	0.7	1.8	20.0	1.15	91	740	500/D
3	25	6	5.90	0.9	1.8	24.0	0.727	116	1,100	500/D
3	35	6	6.95	0.9	1.8	26.5	0.524	144	1,430	500/D
3	50	6	8.33	1.0	1.8	30.0	0.387	180	1,880	500/D
3	70	12	9.73	1.1	1.9	33.5	0.268	224	2,600	500/D
3	95	15	11.43	1.1	2.0	37.5	0.193	271	3,490	500/D
3	120	18	12.95	1.2	2.1	41.5	0.153	315	4,350	500/D
3	150	18	14.27	1.4	2.2	45.5	0.124	363	5,340	400/D
3	185	30	15.98	1.6	2.4	51.0	0.0991	415	6,660	400/D
3	240	34	18.47	1.7	2.6	57.0	0.0754	490	8,650	250/D
3	300	34	20.68	1.8	2.7	62.5	0.0601	565	10,710	200/D
3	400	53	23.39	2.0	3.0	70.0	0.0470	678	13,620	150/D

D: Packing in drum

0.6/1 KV FRC-XLPE/LSHF

0.6/1 kv XLPE INSULATED AND FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE SHEATHED CABLES



CABLE STRUCTURE		TECHNICAL DATA	
Conductor	: Concentric stranded or Compacted stranded copper wires	Reference standard	
Fire barrier tape	: Mica tape	Construction	: IEC 60228, IEC 60502-1
Insulation	: Cross-linked polyethylene (XLPE) Blue, Brown, Black, Grey colour	Circuit integrity	: BS 6387 Categories C,W,Z : IEC 60331-21, TIS 3197
Filler	: LSHF rod	Flame propagation	: IEC 60332-1-2, TIS 2755 : IEC 60332-3-24 Category C : IEC 60332-3-22 Category A
Binding tape	: Fiberglass tape	Acid gas emission	: IEC 60754-2, TIS 2757
Sheath	: Low smoke & halogen free compound (LSHF), Orange colour.	Smoke emission	: IEC 61034-2, TIS 2758
Classification	: Maximum conductor temperature : 90°C : Maximum circuit voltage : 1,000 V : AC test voltage : 3,500 V	APPLICATION	
		Preferably used for installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.	

Number of core	Conductor			Thickness of insulation Nominal (mm)	Thickness of sheath Nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20° C maximum (Ω/km)	Current rating in free air at 40° C ambient (A)	Cable weight approx. (kg/km)	Standard length (m)
	cross sectional area (mm ²)	Number of wires (Min)	Diameter Approx. (mm)							
4	1.5	7	1.53	0.7	1.8	14.5	12.1	21	230	500/D
4	2.5	7	1.98	0.7	1.8	15.5	7.41	29	290	500/D
4	4	7	2.49	0.7	1.8	17.0	4.61	38	370	500/D
4	6	7	3.09	0.7	1.8	18.5	3.08	49	480	500/D
4	10	6	3.72	0.7	1.8	20.0	1.83	68	660	500/D
4	16	6	4.69	0.7	1.8	22.0	1.15	91	930	500/D
4	25	6	5.90	0.9	1.8	26.5	0.727	116	1,400	500/D
4	35	6	6.95	0.9	1.8	29.0	0.524	144	1,840	500/D
4	50	6	8.33	1.0	1.8	33.0	0.387	180	2,420	500/D
4	70	12	9.73	1.1	2.0	37.5	0.268	224	3,380	500/D
4	95	15	11.43	1.1	2.1	41.5	0.193	271	4,540	400/D
4	120	18	12.95	1.2	2.3	46.5	0.153	315	5,680	400/D
4	150	18	14.27	1.4	2.4	51.0	0.124	363	6,980	300/D
4	185	30	15.98	1.6	2.6	56.5	0.0991	415	8,710	250/D
4	240	34	18.47	1.7	2.8	63.5	0.0754	490	11,310	200/D
4	300	34	20.68	1.8	3.0	70.0	0.0601	565	14,040	150/D
4	400	53	23.39	2.0	3.3	78.5	0.0470	678	17,850	100/D

D: Packing in drum

0.6/1 KV FRC-XLPE/SWA/LSHF

0.6/1 kV XLPE INSULATED AND FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE SHEATHED CABLES WITH ARMOUR



CABLE STRUCTURE		TECHNICAL DATA	
Conductor	: Concentric stranded or Compacted stranded copper wires	Reference standard	
Fire barrier tape	: Mica tape	Construction	: IEC 60228, IEC 60502-1
Insulation	: Cross-linked polyethylene (XLPE) Blue, Brown colour or requested colour	Circuit integrity	: BS 6387 Categories C,W,Z : IEC 60331-21, TIS 3197
Filler	: LSHF rod and/or FR-filler yarn	Flame propagator	: IEC 60332-1-2, TIS 2755 : IEC 60332-3-24 Category C : IEC 60332-3-22 Category A
Binding tape	: Polyester tape	Acid gas emission	: IEC 60754-2, TIS 2757
Inner sheath	: Low smoke & halogen free compound (LSHF)	Smoke emission	: IEC 61034-2, TIS 2758
Armour	: Galvanized steel wires	APPLICATION	
Binding tape	: Polyester tape	Preferably used for installation into conduit and open tray wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.	
Outer sheath	: Low smoke & halogen free compound (LSHF), Orange colour.		
Classification	: Maximum conductor temperature : 90°C : Maximum circuit voltage : 1,000 V : AC test voltage : 3,500 V		

Number of core	Conductor			Thickness of insulation Nominal (mm)	Thickness of inner sheath Approx. (mm)	Diameter of wire armour Nominal (mm)	Thickness of outer sheath Nominal (mm)	Overall diameter Approx. (mm)	Conductor resistance at 20° C Max. (Ω/km)	Current rating in free air at 40° C ambient (A)	Cable weight Approx. (kg/km)	Standard length (m)
	cross sectional area (mm ²)	Number of wires (Min)	Diameter Approx. (mm)									
2	1.5	7	1.53	0.7	1.0	0.8	1.8	17.5	12.1	26	420	500/D
2	2.5	7	1.98	0.7	1.0	0.8	1.8	18.5	7.41	35	480	500/D
2	4	7	2.49	0.7	1.0	1.25	1.8	20.5	4.61	46	680	500/D
2	6	7	3.09	0.7	1.0	1.25	1.8	21.5	3.08	59	770	500/D
2	10	6	3.72	0.7	1.0	1.25	1.8	23.0	1.83	80	910	500/D
2	16	6	4.69	0.7	1.0	1.25	1.8	25.0	1.15	105	1,120	500/D
2	25	6	5.90	0.9	1.0	1.6	1.8	29.0	0.727	140	1,630	500/D
2	35	6	6.95	0.9	1.0	1.6	1.8	31.5	0.524	170	1,960	500/D
2	50	6	8.33	1.0	1.0	1.6	1.9	35.0	0.387	210	2,430	500/D
2	70	12	9.73	1.1	1.0	2.0	2.1	39.5	0.268	260	3,340	500/D
2	95	15	11.43	1.1	1.2	2.0	2.2	43.5	0.193	320	4,190	400/D
2	120	18	12.95	1.2	1.2	2.0	2.3	47.0	0.153	370	4,970	400/D
2	150	18	14.27	1.4	1.2	2.5	2.4	52.0	0.124	420	6,270	300/D
2	185	30	15.98	1.6	1.4	2.5	2.6	57.0	0.0991	480	7,550	300/D
2	240	34	18.47	1.7	1.4	2.5	2.8	63.0	0.0754	560	9,300	200/D
2	300	34	20.68	1.8	1.6	2.5	2.9	68.5	0.0601	635	11,150	150/D
2	400	53	23.39	2.0	1.6	2.5	3.2	75.5	0.0470	725	13,650	100/D

0.6/1 KV FRC-XLPE/SWA/LSHF

0.6/1 kV XLPE INSULATED AND FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE SHEATHED CABLES WITH ARMOUR



CABLE STRUCTURE		TECHNICAL DATA	
Conductor	: Concentric stranded or Compacted stranded copper wires	Reference standard	
Fire barrier tape	: Mica tape	Construction	: IEC 60228, IEC 60502-1
Insulation	: Cross-linked polyethylene (XLPE) Brown, Black, Grey colour or requested colour	Circuit integrity	: BS 6387 Categories C,W,Z : IEC 60331-21, TIS 3197
Filler	: LSHF rod and/or FR-filler yarn	Flame propagator	: IEC 60332-1-2, TIS 2755 : IEC 60332-3-24 Category C : IEC 60332-3-22 Category A
Binding tape	: Polyester tape	Acid gas emission	: IEC 60754-2, TIS 2757
Inner sheath	: Low smoke & halogen free compound (LSHF)	Smoke emission	: IEC 61034-2, TIS 2758
Armour	: Galvanized steel wires	APPLICATION	
Binding tape	: Polyester tape	Preferably used for installation into conduit and open tray wiring which provide flame retardant, low smok & corrosive gases properties and maintain circuit integrity in case of fire.	
Outer sheath	: Low smoke & halogen free compound (LSHF), Orange colour.		
Classification	: Mazimum conductor temperature : 90°C : Maximum circuit voltage : 1,000 V : AC test voltage : 3,500 V		

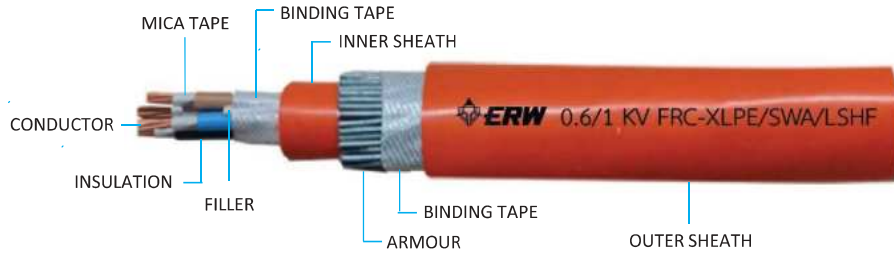
Number of core	Conductor			Thickness of insulation Nominal (mm)	Thickness of inner sheath Approx. (mm)	Diameter of wire armour Nominal (mm)	Thickness of outer sheath Nominal (mm)	Overall diameter Approx. (mm)	Conductor resistance at 20° C Max. (Ω/km)	Current rating in free air at 40° C ambient (A)	Cable weight Approx. (kg/km)	Standard length (m)
	cross sectional area (mm ²)	Number of wires (Min)	Diameter Approx. (mm)									
3	1.5	7	1.53	0.7	1.0	0.8	1.8	18.5	12.1	22	460	500/D
3	2.5	7	1.98	0.7	1.0	0.8	1.8	19.5	7.41	29	530	500/D
3	4	7	2.49	0.7	1.0	1.25	1.8	21.5	4.61	39	750	500/D
3	6	7	3.09	0.7	1.0	1.25	1.8	22.5	3.08	50	870	500/D
3	10	6	3.72	0.7	1.0	1.25	1.8	24.0	1.83	67	1,050	500/D
3	16	6	4.69	0.7	1.0	1.6	1.8	27.0	1.15	89	1,470	500/D
3	25	6	5.90	0.9	1.0	1.6	1.8	30.5	0.727	120	1,960	500/D
3	35	6	6.95	0.9	1.0	1.6	1.9	33.0	0.524	145	2,410	500/D
3	50	6	8.33	1.0	1.0	1.6	2.0	37.0	0.387	175	2,990	500/D
3	70	12	9.73	1.1	1.2	2.0	2.1	42.0	0.268	220	4,170	500/D
3	95	15	11.43	1.1	1.2	2.0	2.2	46.0	0.193	275	5,210	400/D
3	120	18	12.95	1.2	1.2	2.5	2.4	51.0	0.153	315	6,700	400/D
3	150	18	14.27	1.4	1.4	2.5	2.5	55.5	0.124	360	7,960	300/D
3	185	30	15.98	1.6	1.4	2.5	2.7	60.5	0.0991	410	9,570	250/D
3	240	34	18.47	1.7	1.6	2.5	2.9	67.5	0.0754	480	11,980	200/D
3	300	34	20.68	1.8	1.6	2.5	3.1	73.5	0.0601	550	14,410	150/D
3	400	53	23.39	2.0	1.6	3.15	3.4	82.0	0.0470	625	18,620	100/D



D: Packing in drum

0.6/1 KV FRC-XLPE/SWA/LSHF

0.6/1 kV XLPE INSULATED AND FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE SHEATHED CABLES WITH ARMOUR



CABLE STRUCTURE		TECHNICAL DATA	
Conductor	: Concentric stranded or Compacted stranded copper wires	Reference standard	
Fire barrier tape	: Mica tape	Construction	: IEC 60228, IEC 60502-1
Insulation	: Cross-linked polyethylene (XLPE) Blue, Brown, Black, Grey colour	Circuit integrity	: BS 6387 Categories C,W,Z : IEC 60331-21, TIS 3197
Filler	: LSHF rod and/or FR-filler yarn	Flame propagator	: IEC 60332-1-2, TIS 2755 : IEC 60332-3-24 Category C : IEC 60332-3-22 Category A
Binding tape	: Polyester tape	Acid gas emission	: IEC 60754-2, TIS 2757
Inner sheath	: Low smoke & halogen free compound (LSHF)	Smoke emission	: IEC 61034-2, TIS 2758
Armour	: Galvanized steel wires	APPLICATION	
Binding tape	: Polyester tape	Preferably used for installation into conduit and open tray wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.	
Outer sheath	: Low smoke & halogen free compound (LSHF), Orange colour.		
Classification	: Maximum conductor temperature : 90°C : Maximum circuit voltage : 1,000 V : AC test voltage : 3,500 V		

Number of core	Conductor			Thickness of insulation Nominal (mm)	Thickness of inner sheath Approx. (mm)	Diameter of wire armour Nominal (mm)	Thickness of outer sheath Nominal (mm)	Overall diameter Approx. (mm)	Conductor resistance at 20° C Max. (Ω/km)	Current rating in free air at 40° C ambient (A)	Cable weight Approx. (kg/km)	Standard length (m)
	cross sectional area (mm ²)	Number of wires (Min)	Diameter Approx. (mm)									
4	1.5	7	1.53	0.7	1.0	0.8	1.8	19.5	12.1	22	520	500/D
4	2.5	7	1.98	0.7	1.0	1.25	1.8	21.5	7.41	29	740	500/D
4	4	7	2.49	0.7	1.0	1.25	1.8	23.0	4.61	39	860	500/D
4	6	7	3.09	0.7	1.0	1.25	1.8	24.0	3.08	50	1,010	500/D
4	10	6	3.72	0.7	1.0	1.25	1.8	25.5	1.83	67	1,230	500/D
4	16	6	4.69	0.7	1.0	1.6	1.8	28.5	1.15	89	1,730	500/D
4	25	6	5.90	0.9	1.0	1.6	1.8	33.0	0.727	120	2,360	500/D
4	35	6	6.95	0.9	1.0	1.6	1.9	36.0	0.524	145	2,910	500/D
4	50	6	8.33	1.0	1.0	2.0	2.1	41.0	0.387	175	3,920	400/D
4	70	12	9.73	1.1	1.2	2.0	2.2	45.5	0.268	220	5,100	400/D
4	95	15	11.43	1.1	1.2	2.5	2.4	51.0	0.193	275	6,880	300/D
4	120	18	12.95	1.2	1.4	2.5	2.6	56.5	0.153	315	8,350	250/D
4	150	18	14.27	1.4	1.4	2.5	2.7	61.0	0.124	360	9,890	200/D
4	185	30	15.98	1.6	1.6	2.5	2.9	67.0	0.0991	410	12,040	150/D
4	240	34	18.47	1.7	1.6	2.5	3.1	74.0	0.0754	480	15,020	100/D
4	300	34	20.68	1.8	1.6	3.15	3.3	82.0	0.0601	550	18,990	100/D
4	400	53	23.39	2.0	1.8	3.15	3.6	90.5	0.0470	625	23,470	100/D

D: Packing in drum