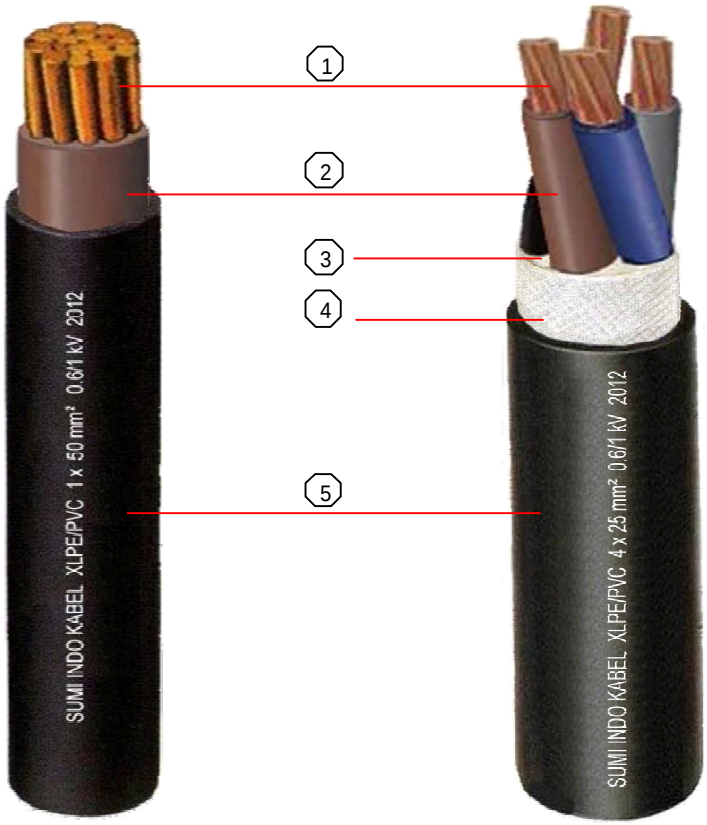
600/1000 V XLPE INSULATED AND PVC SHEATHED CABLES
XLPE/PVC (IEC 60502-1)



Constructions :

1. Conductor (Annealed Copper)
2. Insulation (XLPE Compound)
3. Filler (Polyprophylene yarn,or extruded filler up to request)
4. Binding tape (Manufacturer's option)
5. Outer sheath (PVC Compound)

Note : Special application upon request

* Available product in accordance to : SPLN, ICEA/NEMA, AS standard or other requirement.
* Flame retardant test acc to IEC 60332-3 Cat. A, B or C.
* Anti termite performance.
* Tin coated Copper conductor.
* Polyethylene / Low smoke Halogen Free sheathed

600/1000 V XLPE INSULATED AND PVC SHEATHED CABLES
XLPE / PVC (IEC 60502-1)

CONSTRUCTION

Conductor : Plain Annealed Copper (to IEC 60228 class 1 or 2)
Insulation : XLPE Compound
Sheath : PVC Compound type ST2
Colour Ident. : Insulation - Brown
Sheath - Black

TECHNICAL DATA

Voltage
Uo/U - 600/1000 V
Operating Temperature
Maximum 90°C

SINGLE CORE

Conductor				Nominal Thickness of Insulation	Nominal Thickness of Sheath	Overall diameter of cable (approx.)	Weight of cable (approx.)	Maximum Conductor Resistance at 20°C
Nominal Cross-section area	Shape of Cond.	number of wire	Diameter of Conductor (approx.)					
mm²	-	Number	mm	mm	mm	mm	kg/km	Ω/km
1.5	RE	1	1.38	0.7	1.4	5.4	45	12.1
1.5	RM	7	1.6	0.7	1.4	5.6	45	12.1
2.5	RE	1	1.78	0.7	1.4	5.8	55	7.41
2.5	RM	7	2.0	0.7	1.4	6.0	55	7.41
4	RE	1	2.26	0.7	1.4	6.3	75	4.61
4	RM	7	2.6	0.7	1.4	6.6	75	4.61
6	RM	7	3.1	0.7	1.4	7.1	100	3.08
10	RM	7	4.1	0.7	1.4	8.1	140	1.83
16	CM	7	4.7	0.7	1.4	8.7	195	1.15
25	CM	7	5.9	0.9	1.4	10.5	290	0.727
35	CM	7	7.1	0.9	1.4	11.5	385	0.524
50	CM	19	8.1	1.0	1.4	12.5	500	0.387
70	CM	19	9.7	1.1	1.4	14.5	700	0.268
95	CM	19	11.6	1.1	1.5	16.5	955	0.193
120	CM	37	12.9	1.2	1.5	18.0	1190	0.153
150	CM	37	14.3	1.4	1.6	20.0	1475	0.124
185	CM	37	16.0	1.6	1.6	22.5	1825	0.0991
240	CM	37	18.3	1.7	1.7	25.0	2360	0.0754
300	CM	61	20.7	1.8	1.8	27.5	2945	0.0601
400	CM	61	23.4	2.0	1.9	31.0	3740	0.0470
500	CM	61	26.5	2.2	2.0	34.5	4780	0.0366
630	CM	91	30.3	2.4	2.2	39.5	6165	0.0283
800	CM	91	34.3	2.6	2.3	44.0	7860	0.0221
1000	RM	127	41.6	2.8	2.4	52.0	10030	0.0176

Note RE : Round Solid Class 1, RM : Circular Stranded Class 2, CM : Circular Stranded Compacted Class 2

600/1000 V XLPE INSULATED AND PVC SHEATHED CABLES
XLPE / PVC (IEC 60502-1)

CONSTRUCTION

Conductor : Plain Annealed Copper (to IEC 60228 class 1 or 2)
Insulation : XLPE Compound
Filler : Suitable material
Sheath : PVC Compound type ST2
Colour Ident. : Insulation - Brown, Blue
Sheath - Black

TECHNICAL DATA

Voltage
Uo/U - 600/1000 V
Operating Temperature
Maximum 90°C

TWO CORES

Conductor				Nominal Thickness of Insulation	Nominal Thickness of Sheath	Overall diameter of cable (approx.)	Weight of cable (approx.)	Maximum Conductor Resistance at 20°C
Nominal Cross-section area	Shape of Cond.	number of wire	Diameter of Conductor (approx.)					
mm²	-	Number	mm	mm	mm	mm	kg/km	Ω/km
1.5	RE	1	1.38	0.7	1.8	9.5	105	12.1
1.5	RM	7	1.6	0.7	1.8	10.0	110	12.1
2.5	RE	1	1.78	0.7	1.8	10.5	130	7.41
2.5	RM	7	2.0	0.7	1.8	10.5	135	7.41
4	RE	1	2.26	0.7	1.8	11.5	170	4.61
4	RM	7	2.6	0.7	1.8	12.0	180	4.61
6	RM	7	3.1	0.7	1.8	13.0	230	3.08
10	RM	7	4.1	0.7	1.8	15.0	330	1.83
16	CM	7	4.7	0.7	1.8	16.0	445	1.15
25	CM	7	5.9	0.9	1.8	19.5	660	0.727
35	CM	7	7.1	0.9	1.8	21.5	870	0.524
50	CM	19	8.1	1.0	1.8	24.0	1130	0.387
70	CM	19	9.7	1.1	1.8	27.5	1570	0.268
95	CM	19	11.6	1.1	2.0	31.5	2125	0.193
120	CM	37	12.9	1.2	2.1	35.0	2645	0.153
150	CM	37	14.3	1.4	2.2	38.5	3275	0.124
185	CM	37	16.0	1.6	2.3	43.5	4075	0.0991
240	CM	37	18.3	1.7	2.5	48.5	5270	0.0754
300	CM	61	20.7	1.8	2.7	54.5	6575	0.0601
400	CM	61	23.4	2.0	2.9	61.0	8355	0.0470

Note RE : Round Solid Class 1
RM : Circular Stranded Class 2
CM : Circular Stranded Compacted Class 2

600/1000 V XLPE INSULATED AND PVC SHEATHED CABLES
XLPE / PVC (IEC 60502-1)

CONSTRUCTION

Conductor : Plain Annealed Copper (to IEC 60228 class 1 or 2)
Insulation : XLPE Compound
Filler : Suitable material
Sheath : PVC Compound type ST2
Colour Ident. : Insulation - Brown, Black, Grey
Sheath - Black

TECHNICAL DATA

Voltage
Uo/U - 600/1000 V
Operating Temperature
Maximum 90°C

THREE CORES

Conductor				Nominal Thickness of Insulation	Nominal Thickness of Sheath	Overall diameter of cable (approx.)	Weight of cable (approx.)	Maximum Conductor Resistance at 20°C
Nominal Cross-section area	Shape of Cond.	number of wire	Diameter of Conductor (approx.)					
mm²	-	Number	mm	mm	mm	mm	kg/km	Ω/km
1.5	RE	1	1.38	0.7	1.8	10.0	125	12.1
1.5	RM	7	1.6	0.7	1.8	10.5	130	12.1
2.5	RE	1	1.78	0.7	1.8	11.0	160	7.41
2.5	RM	7	2.0	0.7	1.8	11.5	170	7.41
4	RE	1	2.26	0.7	1.8	12.0	215	4.61
4	RM	7	2.6	0.7	1.8	12.5	230	4.61
6	RM	7	3.1	0.7	1.8	13.5	295	3.08
10	RM	7	4.1	0.7	1.8	16.0	435	1.83
16	CM	7	4.7	0.7	1.8	17.0	605	1.15
25	CM	7	5.9	0.9	1.8	20.5	900	0.727
35	CM	7	7.1	0.9	1.8	23.0	1200	0.524
50	CM	19	8.1	1.0	1.8	25.5	1570	0.387
70	CM	19	9.7	1.1	1.9	29.5	2200	0.268
95	CM	19	11.6	1.1	2.0	34.0	2995	0.193
120	CM	37	12.9	1.2	2.1	37.5	3735	0.153
150	CM	37	14.3	1.4	2.3	41.5	4650	0.124
185	CM	37	16.0	1.6	2.4	46.5	5760	0.0991
240	CM	37	18.3	1.7	2.6	52.5	7500	0.0754
300	CM	61	20.7	1.8	2.8	58.5	9360	0.0601
400	CM	61	23.4	2.0	3.1	65.5	11900	0.0470

Note RE : Round Solid Class 1
RM : Circular Stranded Class 2
CM : Circular Stranded Compacted Class 2

600/1000 V XLPE INSULATED AND PVC SHEATHED CABLES
XLPE / PVC (IEC 60502-1)

CONSTRUCTION

Conductor : Plain Annealed Copper (to IEC 60228 class 1 or 2)

Insulation : XLPE Compound

Filler : Suitable material

Sheath : PVC Compound type ST2

Colour Ident. : Insulation - Brown, Black, Grey, Blue
Sheath - Black

TECHNICAL DATA

Voltage

Uo/U - 600/1000 V

Operating Temperature

Maximum 90°C

FOUR CORES

Conductor				Nominal Thickness of Insulation	Nominal Thickness of Sheath	Overall diameter of cable (approx.)	Weight of cable (approx.)	Maximum Conductor Resistance at 20°C
Nominal Cross-section area	Shape of Cond.	number of wire	Diameter of Conductor (approx.)					
mm²	-	Number	mm	mm	mm	mm	kg/km	Ω/km
1.5	RE	1	1.38	0.7	1.8	10.5	150	12.1
1.5	RM	7	1.6	0.7	1.8	11.0	155	12.1
2.5	RE	1	1.78	0.7	1.8	11.5	195	7.41
2.5	RM	7	2.0	0.7	1.8	12.0	205	7.41
4	RE	1	2.26	0.7	1.8	13.0	270	4.61
4	RM	7	2.6	0.7	1.8	13.5	280	4.61
6	RM	7	3.1	0.7	1.8	15.0	370	3.08
10	RM	7	4.1	0.7	1.8	17.5	550	1.83
16	CM	7	4.7	0.7	1.8	18.5	770	1.15
25	CM	7	5.9	0.9	1.8	22.5	1160	0.727
35	CM	7	7.1	0.9	1.8	25.5	1550	0.524
50	CM	19	8.1	1.0	1.9	28.5	2040	0.387
70	CM	19	9.7	1.1	2.0	33.0	2880	0.268
95	CM	19	11.6	1.1	2.1	37.5	3925	0.193
120	CM	37	12.9	1.2	2.3	41.5	4920	0.153
150	CM	37	14.3	1.4	2.4	46.0	6075	0.124
185	CM	37	16.0	1.6	2.6	52.0	7585	0.0991
240	CM	37	18.3	1.7	2.8	58.5	9870	0.0754
300	CM	61	20.7	1.8	3.0	65.0	12320	0.0601

Note RE : Round Solid Class 1

RM : Circular Stranded Class 2

CM : Circular Stranded Compacted Class 2

600/1000 V XLPE INSULATED AND PVC SHEATHED CABLES
XLPE / PVC (IEC 60502-1)

CONSTRUCTION

Conductor : Plain Annealed Copper (to IEC 60228 class 1 or 2)
Insulation : XLPE Compound
Filler : Suitable material
Sheath : PVC Compound type ST2
Colour Ident. : Insulation - Brown, Black, Grey, Blue, Green / Yellow Stripe
Sheath - Black

TECHNICAL DATA

Voltage
Uo/U - 600/1000 V
Operating Temperature
Maximum 90°C

FIVE CORES

Conductor				Nominal Thickness of Insulation	Nominal Thickness of Sheath	Overall diameter of cable (approx.)	Weight of cable (approx.)	Maximum Conductor Resistance at 20°C
Nominal Cross-section area	Shape of Cond.	number of wire	Diameter of Conductor (approx.)					
mm²	-	Number	mm	mm	mm	mm	kg/km	Ω/km
1.5	RE	1	1.38	0.7	1.8	11.5	175	12.1
1.5	RM	7	1.6	0.7	1.8	12.0	185	12.1
2.5	RE	1	1.78	0.7	1.8	12.5	235	7.41
2.5	RM	7	2.0	0.7	1.8	13.0	245	7.41
4	RE	1	2.26	0.7	1.8	14.0	320	4.61
4	RM	7	2.6	0.7	1.8	15.0	340	4.61
6	RM	7	3.1	0.7	1.8	16.0	450	3.08
10	RM	7	4.1	0.7	1.8	19.0	675	1.83
16	CM	7	4.7	0.7	1.8	20.5	945	1.15
25	CM	7	5.9	0.9	1.8	25.0	1425	0.727
35	CM	7	7.1	0.9	1.8	28.0	1915	0.524
50	CM	19	8.1	1.0	2.0	31.5	2535	0.387

Note RE : Round Solid Class 1
RM : Circular Stranded Class 2
CM : Circular Stranded Compacted Class 2

600/1000 V XLPE INSULATED AND PVC SHEATHED CABLES
XLPE / PVC (IEC 60502-1)

CONSTRUCTION

Conductor : Plain Annealed Copper (to IEC 60228 clas 1)

Insulation : XLPE Compound

Filler (if necessary) : Suitable material

Sheath : PVC Compound type ST2

Colour Ident. : Insulation - Black with numbering code
Sheath - Black

TECHNICAL DATA

Voltage
Uo/U - 600/1000 V

Operating Temperature
Maximum 90°C

CONTROL CABLE : 1.5 mm² (Solid conductor)

No of core	Conductor				Nominal Thickness of Insulation	Nominal Thickness of Sheath	Overall diameter of cable (approx.)	Weight of cable (approx.)	Maximum Conductor Resistance at 20°C
	Nominal Cross-section area	Shape of Cond.	number of wire	Diameter of Conductor (approx.)					
	mm²	-	Number	mm	mm	mm	mm	kg/km	Ω/km
6	1.5	RE	1	1.38	0.7	1.8	12.5	200	12.1
7	1.5	RE	1	1.38	0.7	1.8	12.5	210	12.1
8	1.5	RE	1	1.38	0.7	1.8	13.5	240	12.1
9	1.5	RE	1	1.38	0.7	1.8	14.3	265	12.1
10	1.5	RE	1	1.38	0.7	1.8	15.5	295	12.1
12	1.5	RE	1	1.38	0.7	1.8	16.0	335	12.1
14	1.5	RE	1	1.38	0.7	1.8	16.5	380	12.1
15	1.5	RE	1	1.38	0.7	1.8	17.0	400	12.1
16	1.5	RE	1	1.38	0.7	1.8	17.5	425	12.1
18	1.5	RE	1	1.38	0.7	1.8	18.5	465	12.1
19	1.5	RE	1	1.38	0.7	1.8	18.5	480	12.1
20	1.5	RE	1	1.38	0.7	1.8	19.0	505	12.1
24	1.5	RE	1	1.38	0.7	1.8	21.5	600	12.1
30	1.5	RE	1	1.38	0.7	1.8	22.5	720	12.1
32	1.5	RE	1	1.38	0.7	1.8	23.0	760	12.1
37	1.5	RE	1	1.38	0.7	1.8	24.5	855	12.1
40	1.5	RE	1	1.38	0.7	1.8	25.5	920	12.1
50	1.5	RE	1	1.38	0.7	1.9	28.0	1125	12.1
52	1.5	RE	1	1.38	0.7	1.9	29.5	1210	12.1
60	1.5	RE	1	1.38	0.7	1.9	30.5	1330	12.1
61	1.5	RE	1	1.38	0.7	1.9	30.5	1350	12.1

Note RE : Round Solid Class 1

600/1000 V XLPE INSULATED AND PVC SHEATHED CABLES
XLPE / PVC (IEC 60502-1)

CONSTRUCTION

Conductor : Plain Annealed Copper (to IEC 60228 clas 2)
Insulation : XLPE Compound
Filler (if necessary) : Suitable material
Sheath : PVC Compound type ST2
Colour Ident. : Insulation - Black with numbering code
Sheath - Black

TECHNICAL DATA

Voltage
Uo/U - 600/1000 V
Operating Temperature
Maximum 90°C

CONTROL CABLE : 1.5 mm² (Stranded conductor)

No of core	Conductor				Nominal Thickness of Insulation	Nominal Thickness of Sheath	Overall diameter of cable (approx.)	Weight of cable (approx.)	Maximum Conductor Resistance at 20°C
	Nominal Cross-section area	Shape of Cond.	number of wire	Diameter of Conductor (approx.)					
	mm²	-	Number	mm	mm	mm	mm	kg/km	Ω/km
6	1.5	RM	7	1.6	0.7	1.8	13.0	210	12.1
7	1.5	RM	7	1.6	0.7	1.8	13.0	220	12.1
8	1.5	RM	7	1.6	0.7	1.8	14.0	250	12.1
9	1.5	RM	7	1.6	0.7	1.8	15.0	280	12.1
10	1.5	RM	7	1.6	0.7	1.8	16.5	310	12.1
12	1.5	RM	7	1.6	0.7	1.8	17.0	355	12.1
14	1.5	RM	7	1.6	0.7	1.8	17.5	400	12.1
15	1.5	RM	7	1.6	0.7	1.8	18.0	420	12.1
16	1.5	RM	7	1.6	0.7	1.8	18.5	445	12.1
18	1.5	RM	7	1.6	0.7	1.8	19.5	490	12.1
19	1.5	RM	7	1.6	0.7	1.8	19.5	500	12.1
20	1.5	RM	7	1.6	0.7	1.8	20.0	530	12.1
24	1.5	RM	7	1.6	0.7	1.8	22.5	630	12.1
30	1.5	RM	7	1.6	0.7	1.8	24.0	755	12.1
32	1.5	RM	7	1.6	0.7	1.8	24.5	795	12.1
37	1.5	RM	7	1.6	0.7	1.8	26.0	900	12.1
40	1.5	RM	7	1.6	0.7	1.8	27.0	965	12.1
50	1.5	RM	7	1.6	0.7	1.9	29.5	1185	12.1
52	1.5	RM	7	1.6	0.7	1.9	30.5	1230	12.1
60	1.5	RM	7	1.6	0.7	1.9	32.5	1395	12.1
61	1.5	RM	7	1.6	0.7	1.9	32.5	1415	12.1

Note RM : Circular Stranded Class 2

600/1000 V XLPE INSULATED AND PVC SHEATHED CABLES
XLPE / PVC (IEC 60502-1)

CONSTRUCTION

Conductor : Plain Annealed Copper (to IEC 60228 class 1)

Insulation : XLPE Compound

Filler (if necessary) : Suitable material

Sheath : PVC Compound type ST2

Colour Ident. : Insulation - Black with numbering code
Sheath - Black

TECHNICAL DATA

Voltage
Uo/U - 600/1000 V

Operating Temperature
Maximum 90°C

CONTROL CABLE : 2.5 mm² (Solid conductor)

No of core	Conductor				Nominal Thickness of Insulation	Nominal Thickness of Sheath	Overall diameter of cable (approx.)	Weight of cable (approx.)	Maximum Conductor Resistance at 20°C
	Nominal Cross-section area	Shape of Cond.	number of wire	Diameter of Conductor (approx.)					
	mm²	-	Number	mm	mm	mm	mm	kg/km	Ω/km
6	2.5	RE	1	1.78	0.7	1.8	13.5	265	7.41
7	2.5	RE	1	1.78	0.7	1.8	13.5	290	7.41
8	2.5	RE	1	1.78	0.7	1.8	14.5	330	7.41
9	2.5	RE	1	1.78	0.7	1.8	16.0	370	7.41
10	2.5	RE	1	1.78	0.7	1.8	17.0	410	7.41
12	2.5	RE	1	1.78	0.7	1.8	17.5	465	7.41
14	2.5	RE	1	1.78	0.7	1.8	18.5	530	7.41
15	2.5	RE	1	1.78	0.7	1.8	19.0	565	7.41
16	2.5	RE	1	1.78	0.7	1.8	19.5	595	7.41
18	2.5	RE	1	1.78	0.7	1.8	20.5	655	7.41
19	2.5	RE	1	1.78	0.7	1.8	20.5	680	7.41
20	2.5	RE	1	1.78	0.7	1.8	21.0	715	7.41
24	2.5	RE	1	1.78	0.7	1.8	24.0	855	7.41
30	2.5	RE	1	1.78	0.7	1.8	25.5	1035	7.41
32	2.5	RE	1	1.78	0.7	1.8	26.0	1095	7.41
37	2.5	RE	1	1.78	0.7	1.8	27.5	1240	7.41
40	2.5	RE	1	1.78	0.7	1.9	28.5	1335	7.41
50	2.5	RE	1	1.78	0.7	2.0	31.5	1655	7.41
52	2.5	RE	1	1.78	0.7	2.0	32.5	1720	7.41
60	2.5	RE	1	1.78	0.7	2.0	34.5	1965	7.41
61	2.5	RE	1	1.78	0.7	2.0	34.5	1990	7.41

Note RE : Round Solid Class 1

600/1000 V XLPE INSULATED AND PVC SHEATHED CABLES
XLPE / PVC (IEC 60502-1)

CONSTRUCTION

Conductor : Plain Annealed Copper (to IEC 60228 class 2)

Insulation : XLPE Compound

Filler (if necessary) : Suitable material

Sheath : PVC Compound type ST2

Colour Ident. : Insulation - Black with numbering code
Sheath - Black

TECHNICAL DATA

Voltage

Uo/U - 600/1000 V

Operating Temperature

Maximum 90°C

CONTROL CABLE : 2.5 mm² (Stranded conductor)

No of core	Conductor				Nominal Thickness of Insulation	Nominal Thickness of Sheath	Overall diameter of cable (approx.)	Weight of cable (approx.)	Maximum Conductor Resistance at 20°C
	Nominal Cross-section area	Shape of Cond.	number of wire	Diameter of Conductor (approx.)					
	mm²	-	Number	mm	mm	mm	mm	kg/km	Ω/km
6	2.5	RM	7	2.0	0.7	1.8	14.5	280	7.41
7	2.5	RM	7	2.0	0.7	1.8	14.5	300	7.41
8	2.5	RM	7	2.0	0.7	1.8	15.5	340	7.41
9	2.5	RM	7	2.0	0.7	1.8	16.5	385	7.41
10	2.5	RM	7	2.0	0.7	1.8	18.0	425	7.41
12	2.5	RM	7	2.0	0.7	1.8	18.5	485	7.41
14	2.5	RM	7	2.0	0.7	1.8	19.5	555	7.41
15	2.5	RM	7	2.0	0.7	1.8	20.0	585	7.41
16	2.5	RM	7	2.0	0.7	1.8	20.5	620	7.41
18	2.5	RM	7	2.0	0.7	1.8	21.5	685	7.41
19	2.5	RM	7	2.0	0.7	1.8	21.5	705	7.41
20	2.5	RM	7	2.0	0.7	1.8	22.0	745	7.41
24	2.5	RM	7	2.0	0.7	1.8	25.0	890	7.41
30	2.5	RM	7	2.0	0.7	1.8	26.5	1075	7.41
32	2.5	RM	7	2.0	0.7	1.8	27.0	1140	7.41
37	2.5	RM	7	2.0	0.7	1.8	28.5	1290	7.41
40	2.5	RM	7	2.0	0.7	1.9	30.0	1390	7.41
50	2.5	RM	7	2.0	0.7	2.0	33.0	1710	7.41
52	2.5	RM	7	2.0	0.7	2.0	34.0	1790	7.41
60	2.5	RM	7	2.0	0.7	2.0	36.0	2040	7.41
61	2.5	RM	7	2.0	0.7	2.0	36.0	2070	7.41

Note RM : Circular Stranded Class 2