

# INSTRUMENT CABLES

## RE2YY (1-50) Pairs x 1.5 mm<sup>2</sup> & (1-50) Pairs x 2.5 mm<sup>2</sup> 300/500 V

CU / PE / OS / PVC

(Copper Conductor, PE Insulated, Collective Screen, PVC Sheathed)

Standard Specification : BS 5308-1 & IEC 60502

### Construction Data

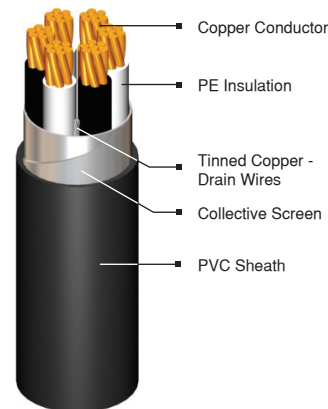
No. of pairs	Size			
	1.5 mm <sup>2</sup>		2.5 mm <sup>2</sup>	
	Overall Diameter	Cable Weight	Overall Diameter	Cable Weight
	approx.	approx.	approx.	approx.
	mm	kg/km	mm	kg/km
1	7.7	89	10.5	157
2	10.4	137	14.0	234
3	12.9	186	16.0	289
4	14.5	233	18.0	363
5	15.8	298	19.5	464
6	17.2	340	21.0	520
7	18.4	374	22.5	576
9	20.5	462	25.5	725
10	21.5	506	26.5	806
12	24.0	612	29.0	945
14	25.5	699	31.0	1,095
15	26.0	761	32.0	1,192
16	27.0	803	33.0	1,260
18	28.5	870	35.0	1,380
19	29.0	913	35.5	1,448
20	29.5	974	36.5	1,561
24	32.5	1,151	40.0	1,829
30	36.0	1,402	44.5	2,250
36	39.5	1,714	48.5	2,692
40	41.5	1,882	51.0	2,981
48	45.0	2,214	56.0	3,561
50	46.0	2,296	57.0	3,694

#### Application :

Instrumentation cables are suitable for industrial control system as needed in measurement, control, signalling and data system technology.

#### Special Features on Request

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



#### Note :

##### Conductor Shape

All construction supplied in solid (re) or non compacted circular stranded (rm)

##### Standard Packing

Size 1.5 mm<sup>2</sup> :

All conductor supplied in wooden drum @ 1000 m

Size 2.5 mm<sup>2</sup> :

1 - 36 pairs supplied in wooden drum @ 1000 m

40 - 50 pairs supplied in wooden drum on available length

Length tolerance per drum ± 2%

Size of drain wire : 0.5 mm<sup>2</sup>

### Electrical Data

Conductor			Insulation		Mutual Capacitance		AC Voltage Test
Nominal Cross Section	Resistance at 20°C		Resistance at 20°C		pF/m		
	mm <sup>2</sup>	max.	min.	G.ohm.km	≤ 2 Pair	≥ 3 Pair	volt/1 min
	1 Pair	≥ 2 Pair					
1.5	12.1	12.3	5		120	85	1000
2.5	7.41	7.56	5		120	85	1000

# INSTRUMENT CABLES

## RE2YY (2-50) Pairs x 1.5 mm<sup>2</sup> & (2-50) Pairs x 2.5 mm<sup>2</sup> 300/500 V

CU / PE / IS / PVC

(Copper Conductor, PE Insulated, Individual Screen, PVC Sheathed)

Standard Specification : BS 5308-1 & IEC 60502

### Construction Data

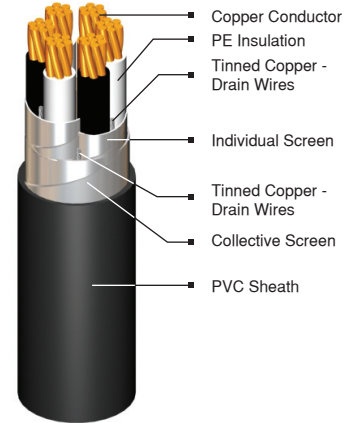
No. of pairs	Size			
	1.5 mm <sup>2</sup>		2.5 mm <sup>2</sup>	
	Overall Diameter	Cable Weight	Overall Diameter	Cable Weight
	approx.	approx.	approx.	approx.
	mm	kg/km	mm	kg/km
2	12.6	244	15.4	362
3	13.6	287	16.4	419
4	14.9	339	17.9	496
5	16.3	345	19.6	506
6	19.1	442	23.0	624
7	19.1	457	23.0	646
9	23.0	576	27.5	830
10	24.5	633	29.5	927
12	27.5	767	32.5	1,092
14	28.5	869	34.0	1,258
15	30.0	946	36.0	1,370
16	31.5	1,008	38.0	1,459
18	33.5	1,095	40.0	1,606
19	33.5	1,141	40.0	1,675
20	35.0	1,271	42.5	1,886
24	41.5	1,492	50.0	2,168
30	44.0	1,792	53.5	2,640
36	48.5	2,161	58.0	3,158
40	50.0	2,366	61.0	3,490
48	55.5	2,795	68.0	4,189
50	57.0	2,900	69.5	4,347

#### Application :

Instrumentation cables are suitable for industrial control system as needed in measurement, control, signalling and data system technology.

#### Special Features on Request

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



#### Note :

##### Conductor Shape

All construction supplied in solid or non compacted circular stranded

##### Standard Packing

Size 1.5 mm<sup>2</sup> :

2 - 36 pairs supplied in wooden drum @ 1000 m

40 - 50 pairs supplied in wooden drum on available length

Size 2.5 mm<sup>2</sup> :

2 - 20 pairs supplied in wooden drum @ 1000 m

24 - 50 pairs supplied in wooden drum on available length

Length tolerance per drum ± 2%

Size of drain wire : 0.5 mm<sup>2</sup>

### Electrical Data

Conductor		Insulation		Mutual Capacitance	AC Voltage Test
Nominal Cross Section	Resistance at 20°C	Resistance at 20°C			
	max.	min.		max.	-
mm <sup>2</sup>	ohm/km	G.ohm.km		pF/m	volt/1 min
1.5	12.3	5		120	1000
2.5	7.56	5		120	1000