

300/500V PVC/PVC-SLA Multipair, collective screen

BS 5308 Part2 Type1
and FURUKAWA standard

Construction

- Conductor
Plain annealed copper wires according to BS 6360(IEC 228)
- Insulation
PVC compound type T11 according to BS 6746
- Colour code
pair:black and white
numbering on black core for multipair
- Cores twisted to pairs
(two pairs manufactured as quad)
- Screen
Collective screen of aluminium/poly ester tape, 0.022mm thick, over tinned drain wire 0.5mm²
- Binder
Binder of polyester tape (except one pair and two pairs cables)
- Sheath
PVC compound type TM1 according to BS 6746, black
- Cable identification
Manufacturer's name and year of manufacture

Abbreviations

PVC : polyvinyl chloride
SLA : aluminium/polyester tape
collective screen

Application

for transmission of analogues and digital signals in and around process plants

Use

in dry and damp industrial areas(not recommended for underground burial)

Temperature rating

during operation: - 30 up to + 70
during installation: - 10 up to + 50

Min.bending radius

during operation: 6 × overall diameter
during installation: 8 × overall diameter

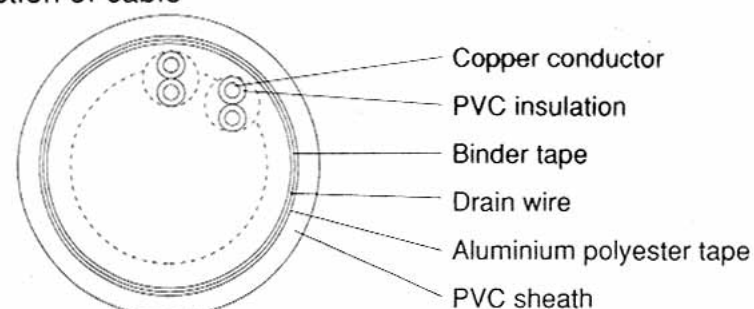
Other properties

flame retardant according to BS 4066 part1(IEC 332 part1)

Electrical properties at 20

	Character	Unit	Conductor size							
			mm ² (No./mm)	0.5 (1/0.8)	0.5 (7/0.3)	0.75 (1/0.96)	0.75 (7/0.37)	1.0 (1/1.13)	1.0 (7/0.43)	1.5 (7/0.53)
Conductor resistance	max.	/km	36.8	36.7	25.0	25.0	18.4	18.5	12.3	
Insulation resistance	min.	M · km	25							
Mutual capacitance of pair at 1kHz	max.	nF/km	250							
Capacitance between any core or screen at 1kHz	max.	nF/km	450							
Inductance/resistance ratio (L/R)	max.	µ H/	25							40
Test voltage (Core to core)		V	1000							
(Core to screen)		V	1000							

Cross-section of cable



Construction table

No. of pairs	Thickness of insulation nom. (mm)	Thickness of sheath nom. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)
0.5mm² (1/0.8mm)				
1	0.5	0.8	5.5	40
2	0.5	0.8	6.3	57
3	0.5	0.9	8.8	89
5	0.5	1.1	11.0	130
10	0.5	1.2	14.0	225
15	0.5	1.2	16.5	310
20	0.5	1.3	19.0	400
24	0.5	1.3	21	470
30	0.5	1.3	23	570
0.5mm² (7/0.3mm)				
1	0.6	0.8	6.0	45
2	0.6	0.8	6.8	68
3	0.6	0.9	9.6	99
5	0.6	1.1	12.0	145
10	0.6	1.2	15.5	255
15	0.6	1.3	18.5	365
20	0.6	1.3	21	455
24	0.6	1.3	23	535
30	0.6	1.5	26	670
0.75mm² (1/0.96mm)				
1	0.6	0.8	6.1	49
2	0.6	0.8	7.0	73
3	0.6	0.9	9.8	110
5	0.6	1.1	12.0	175
10	0.6	1.2	16.0	295
15	0.6	1.3	19.0	420
20	0.6	1.3	22	535
24	0.6	1.5	24	650
30	0.6	1.5	26	790
0.75mm² (7/0.37mm)				
1	0.6	0.8	6.4	51
2	0.6	0.8	7.3	77
3	0.6	1.1	11.0	130
5	0.6	1.2	13.0	190
10	0.6	1.2	17.0	320
15	0.6	1.3	20	460
20	0.6	1.3	23	580
24	0.6	1.5	25	710
30	0.6	1.5	28	860

No. of pairs	Thickness of insulation nom. (mm)	Thickness of sheath nom. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)
1.0mm² (1/1.13mm)				
1	0.6	0.8	6.4	56
2	0.6	0.8	7.4	88
3	0.6	1.1	11.0	145
5	0.6	1.2	13.0	210
10	0.6	1.2	17.0	365
15	0.6	1.3	21	520
20	0.6	1.5	23	690
24	0.6	1.5	25	810
30	0.6	1.5	28	980
1.0mm² (7/0.43mm)				
1	0.6	0.8	6.8	61
2	0.6	0.8	7.8	93
3	0.6	1.1	12.0	155
5	0.6	1.2	14.0	225
10	0.6	1.3	18.0	395
15	0.6	1.3	22	560
20	0.6	1.5	25	740
24	0.6	1.5	27	870
30	0.6	1.7	30	1050
1.5mm² (7/0.53mm)				
1	0.6	0.8	7.3	77
2	0.6	0.9	8.5	120
3	0.6	1.2	13.0	200
5	0.6	1.2	15.0	295
10	0.6	1.3	20	525
15	0.6	1.5	24	770
20	0.6	1.5	27	985
24	0.6	1.7	30	1190
30	0.6	1.7	33	1440

300/500V PVC/PVC-PSLA Multipair, individual pair screen

BS 5308 Part2 Type1
and FURUKAWA standard

Construction

- Conductor
Plain annealed copper wires according to BS 6360(IEC 228)
- Insulation
PVC compound type T11 according to BS 6746
- Colour code
pair:black and white
numbering on black core for multipair
- Cores twisted to pairs
- Screen
Pair screen of aluminium/polyester tape, 0.022mm thick, over tinned drain wire 0.5mm²
- Binder
Binder tape of polyester tape
- Sheath
PVC compound type TM1 according to BS 6746, black
- Cable identification
Manufacturer's name and year of manufacture

Abbreviations

PVC : polyvinyl chloride
PSLA : aluminium/polyester tape pair screen

Application

for transmission of analogues and digital signals in and around process plants

Use

in dry and damp industrial areas
(not recommended for underground burial)

Temperature rating

during operation : -30 up to +70
during installation : -10 up to +50

Min. bending radius

during operation : 6 × overall diameter
during installation : 8 × overall diameter

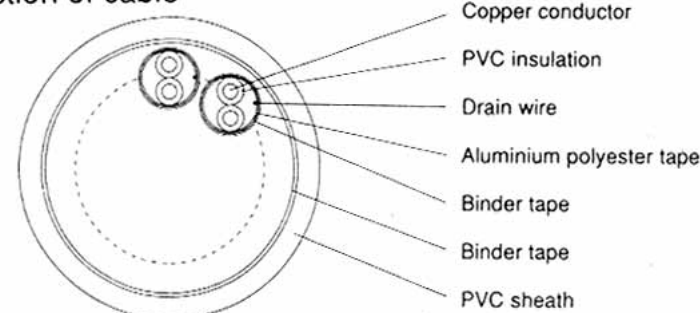
Other properties

flame retardant according to BS 4066 part1
(IEC 332 part1)

Electrical properties at 20

	Character	Unit	Conductor size						
			0.5 (1/0.8)	0.5 (7/0.3)	0.75 (1/0.96)	0.75 (7/0.37)	1.0 (1/1.13)	1.0 (7/0.43)	1.5 (7/0.53)
Conductor resistance	max.	/km	36.8	36.7	25.0	25.0	18.4	18.5	12.3
Insulation resistance	min.	M · km	25						
Mutual capacitance of pairs at 1kHz	max.	nF/km	250						
Capacitance between any core or screen at 1kHz	max.	nF/km	450						
Inductance/resistance ratio (L/R)	max.	μ H/	25						40
Test voltage (Core to core)		V	1000						
(Core to screen)		V	1000						

Cross-section of cable



Construction table

No. of pairs	Thickness of insulation nom. (mm)	Thickness of sheath nom. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)
0.5mm² (1/0.8mm)				
2	0.5	0.9	9.4	85
3	0.5	1.1	11.0	125
5	0.5	1.2	13.0	180
10	0.5	1.2	17.0	325
15	0.5	1.3	19.5	450
20	0.5	1.3	22	565
24	0.5	1.5	25	695
30	0.5	1.5	27	835
0.5mm² (7/0.3mm)				
2	0.6	1.1	11.0	115
3	0.6	1.1	12.0	140
5	0.6	1.2	14.0	210
10	0.6	1.3	19.0	370
15	0.6	1.3	22	500
20	0.6	1.5	24	645
24	0.6	1.5	27	780
30	0.6	1.7	30	960
0.75mm² (1/0.96mm)				
2	0.6	1.1	11.5	125
3	0.6	1.1	12.0	150
5	0.6	1.2	14.5	230
10	0.6	1.3	19.5	410
15	0.6	1.3	22	565
20	0.6	1.5	25	730
24	0.6	1.5	28	880
30	0.6	1.7	31	1100
0.75mm² (7/0.37mm)				
2	0.6	1.1	12.0	135
3	0.6	1.2	13.0	170
5	0.6	1.2	15.0	245
10	0.6	1.3	21	445
15	0.6	1.5	24	625
20	0.6	1.5	26	785
24	0.6	1.7	30	975
30	0.6	1.7	33	1180

No. of pairs	Thickness of insulation nom. (mm)	Thickness of sheath nom. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)
1.0mm² (1/1.13mm)				
2	0.6	1.1	12.0	145
3	0.6	1.2	13.0	185
5	0.6	1.2	15.5	265
10	0.6	1.3	21	485
15	0.6	1.5	24	690
20	0.6	1.7	27	900
24	0.6	1.7	30	1090
30	0.6	2.0	33	1360
1.0mm² (7/0.43mm)				
2	0.6	1.2	13.0	160
3	0.6	1.2	13.5	195
5	0.6	1.2	16.0	280
10	0.6	1.3	22	515
15	0.6	1.5	25	735
20	0.6	1.5	28	925
24	0.6	1.7	32	1150
30	0.6	2.0	35	1440
1.5mm² (7/0.53mm)				
2	0.6	1.2	14.0	195
3	0.6	1.2	15.0	245
5	0.6	1.3	18.0	365
10	0.6	1.5	25	685
15	0.6	1.7	28	970
20	0.6	1.7	31	1230
24	0.6	2.0	36	1530
30	0.6	2.0	39	1840

300/500V PVC/PVC/SWA/PVC-SLA Multipair,collective screen,armour

BS 5308 Part2 Type2
and FURUKAWA standard

Construction

- Conductor
Plain annealed copper wires according to BS 6360(IEC 228)
- Insulation
PVC compound type T11 according to BS 6746
- Colour code
pair:black and white
numbering on black core for multipair
- Cores twisted to pairs(two pairs manufactured as quad)
- Binder
Binder of polyester tape(except one pair and two pairs cables)
- Screen
Collective screen of aluminium/polyester tape, 0.022mm thick, over tinned drain wire 0.5mm²
- Bedding
PVC compound type TM1 according to BS 6746,black
- Armour
Galvanized steel wires
- Oversheath
PVC compound type TM1 according to BS 6746, black

- Cable identification
Manufacturer's name and year of manufacture
- Abbreviations**
PVC : polyvinyl chloride
SWA : steel wire armour
SLA : aluminium/polyester tape collective screen

Application

for transmission of analogues and digital signals in and around process plants

Use

in dry and damp industrial areas (recommended for underground burial)

Temperature rating

during operation : -30 up to +70
during installation : -10 up to +50

Min. bending radius

during operation : 8 × overall diameter
during installation : 10 × overall diameter

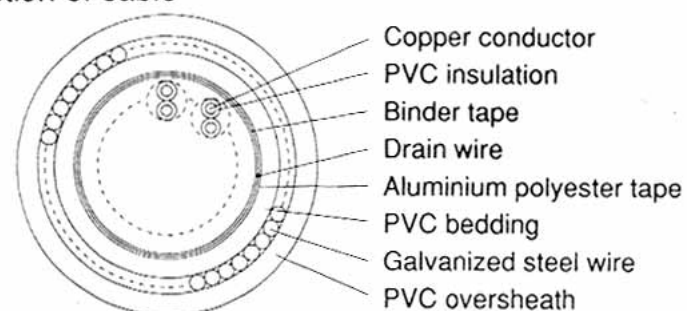
Other properties

flame retardant according to BS 4066 part1 (IEC 332 part1)

Electrical properties at 20

	Character	Unit	Conductor size							
			mm ² (No./mm)	0.5 (1/0.8)	0.5 (7/0.3)	0.75 (1/0.96)	0.75 (7/0.37)	1.0 (1/1.13)	1.0 (7/0.43)	1.5 (7/0.53)
Conductor resistance	max.	/km	36.8	36.7	25.0	25.0	18.4	18.5	12.3	
Insulation resistance	min.	M · km	25							
Mutual capacitance of pairs at 1kHz	max.	nF/km	250							
Capacitance between any core or screen at 1kHz	max.	nF/km	450							
Inductance/resistance ratio (L/R)	max.	μ H/	25							40
Test voltage (Core to core)		V	1000							
(Core to screen)		V	1000							

Cross-section of cable



Construction table

No. of pairs	Thickness of insulation nom. (mm)	Thickness of bedding nom. (mm)	Dia. over bedding approx. (mm)	Dia. of wire nom. (mm)	Dia. of armour approx. (mm)	Thickness of overshath nom. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)
0.5mm² (1/0.8mm)								
1	0.5	0.8	5.5	0.9	7.3	1.3	9.7	200
2	0.5	0.8	6.3	0.9	8.1	1.3	10.5	230
3	0.5	0.9	8.8	0.9	11.0	1.4	13.0	320
5	0.5	1.1	10.5	0.9	12.5	1.4	15.0	385
10	0.5	1.2	14.0	1.25	16.0	1.6	19.0	665
15	0.5	1.2	16.0	1.25	19.0	1.6	22	825
20	0.5	1.3	18.5	1.6	22	1.7	25	1140
24	0.5	1.3	20	1.6	23	1.7	26	1260
30	0.5	1.3	22	1.6	25	1.8	28	1440
0.5mm² (7/0.3mm)								
1	0.6	0.8	6.0	0.9	7.8	1.3	10.5	215
2	0.6	0.8	6.8	0.9	8.6	1.3	11.0	250
3	0.6	0.9	9.6	0.9	11.5	1.4	14.0	335
5	0.6	1.1	11.5	0.9	13.5	1.5	16.0	420
10	0.6	1.2	15.0	1.25	18.0	1.6	21	735
15	0.6	1.3	18.0	1.6	22	1.7	24	1080
20	0.6	1.3	21	1.6	24	1.8	27	1260
24	0.6	1.5	22	1.6	26	1.8	29	1430
30	0.6	1.5	25	1.6	28	1.9	32	1670
0.75mm² (1/0.96mm)								
1	0.6	0.8	6.1	0.9	7.9	1.3	10.5	225
2	0.6	0.8	7.0	0.9	8.8	1.3	11.5	270
3	0.6	0.9	9.8	0.9	12.0	1.4	14.0	355
5	0.6	1.1	12.0	0.9	13.5	1.5	16.0	450
10	0.6	1.2	15.5	1.25	18.0	1.6	21	785
15	0.6	1.3	18.5	1.6	22	1.7	25	1160
20	0.6	1.3	21	1.6	24	1.8	27	1370
24	0.6	1.5	23	1.6	27	1.8	30	1580
30	0.6	1.5	26	1.6	29	1.9	32	1830
0.75mm² (7/0.37mm)								
1	0.6	0.8	6.4	0.9	8.2	1.3	11.0	235
2	0.6	0.8	7.3	0.9	9.1	1.4	11.5	275
3	0.6	0.9	11.0	0.9	12.5	1.4	15.0	390
5	0.6	1.1	13.0	0.9	15.0	1.5	17.5	590
10	0.6	1.2	16.5	1.25	19.0	1.6	22	845
15	0.6	1.3	20	1.6	23	1.7	26	1240
20	0.6	1.3	22	1.6	26	1.8	29	1480
24	0.6	1.5	25	1.6	28	1.9	31	1690
30	0.6	1.5	27	1.6	31	1.9	34	1950

No. of pairs	Thickness of insulation nom. (mm)	Thickness of bedding nom. (mm)	Dia. over bedding approx. (mm)	Dia. of wire nom. (mm)	Dia. of armour approx. (mm)	Thickness of overshath nom. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)
1.0mm² (1/1.13mm)								
1	0.6	0.8	6.4	0.9	8.2	1.3	11.0	235
2	0.6	0.8	7.4	0.9	9.2	1.4	12.0	285
3	0.6	1.1	11.0	0.9	12.5	1.4	15.0	405
5	0.6	1.2	13.0	1.25	15.5	1.5	18.0	610
10	0.6	1.2	16.5	1.25	19.0	1.7	22	900
15	0.6	1.3	20	1.6	23	1.8	26	1340
20	0.6	1.5	23	1.6	26	1.8	29	1600
24	0.6	1.5	25	1.6	28	1.9	31	1820
30	0.6	1.5	28	1.6	31	2.0	34	2100
1.0mm² (7/0.43mm)								
1	0.6	0.8	6.8	0.9	8.6	1.3	11.0	250
2	0.6	0.8	7.8	0.9	9.6	1.4	12.0	295
3	0.6	1.1	11.5	0.9	13.0	1.5	15.5	425
5	0.6	1.2	13.5	1.25	16.0	1.5	18.5	650
10	0.6	1.3	18.0	1.6	21	1.7	24	1100
15	0.6	1.3	21	1.6	25	1.8	28	1420
20	0.6	1.5	24	1.6	28	1.9	31	1720
24	0.6	1.5	27	1.6	30	1.9	33	1940
30	0.6	1.7	30	2.0	34	2.0	37	2510
1.5mm² (1/0.96mm)								
1	0.6	0.8	7.3	0.9	9.1	1.4	11.5	275
2	0.6	0.9	8.5	0.9	10.5	1.4	13.0	345
3	0.6	1.2	12.5	1.25	15.0	1.5	17.5	605
5	0.6	1.2	15.0	1.25	17.5	1.6	20	765
10	0.6	1.3	19.5	1.6	23	1.8	26	1320
15	0.6	1.5	24	1.6	27	1.9	30	1740
20	0.6	1.5	27	1.6	30	2.0	34	2080
24	0.6	1.7	30	2.0	34	2.0	37	2650
30	0.6	1.7	33	2.0	37	2.1	40	3070

300/500V PVC/PVC/SWA/PVC-PSLA Multipair, individual pair screen, armour

BS 5308 Part2 Type2
and FURUKAWA standard

Construction

- Conductor
Plain annealed copper wires according to BS 6360(IEC 228)
- Insulation
PVC compound type T11 according to BS 6746
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pair:black and white
numbering on black core for multipair
- Cores twisted to pairsc
- Screen
Pair screen of aluminium/polyester tape, 0.022mm thick, over tinned drain wire 0.5mm²
- Binder
Binder tape of polyester tape
- Bedding
PVC compound type TM1 according to BS 6746, black
- Armour
Galvanized steel wires
- Oversheath
PVC compound type TM1 according to BS 6746, black

- Cable identification
Manufacturer's name and year of manufacture

Abbreviations

- PVC : polyvinyl chloride
- SWA : steel wire armour
- PSLA : aluminium/polyester tape pair screen

Application

for transmission of analogous and digital signals in and around process plants

USE

in dry and damp industrial areas (recommended for underground burial)

Temperature rating

during operation : -30 up to +70
during installation : -10 up to +50

Min. bending radius

during operation : 8 × overall diameter
during installation : 10 × overall diameter

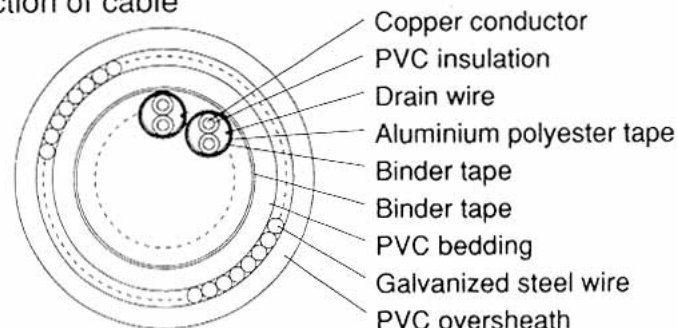
Other properties

flame retardant according to BS 4066 part1 (IEC 332 part1)

Electrical properties at 20

	Character	Unit ²	Conductor size								
			0.5 mm (No./mm)	0.5 (1/0.8)	0.75 (7/0.3)	0.75 (1/0.96)	1.0 (7/0.37)	1.0 (1/1.13)	1.5 (7/0.43)	1.5 (7/0.53)	
Conductor resistance	max.	/km	36.8	36.7	25.0	25.0	18.4	18.5	12.3		
Insulation resistance	min.	M · km	25								
Mutual capacitance of pairs at 1kHz	max.	nF/km	250								
Capacitance between any core or screen at 1kHz	max.	nF/km	450								
Inductance/resistance ratio (L/R)	max.	µ H/	25							40	
Test voltage (Core to core)		V	1000								
(Core to screen)		V	1000								

Cross-section of cable



Construction table

No. of pairs	Thickness of insulation nom. (mm)	Thickness of bedding nom. (mm)	Dia. over bedding approx. (mm)	Dia. of wire nom. (mm)	Dia. of armour approx. (mm)	Thickness of oversheath nom. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)
0.5mm² (1/0.8mm)								
2	0.5	0.9	9.4	0.9	11.5	1.4	14.0	330
3	0.5	1.1	10.5	0.9	12.0	1.4	14.5	375
5	0.5	1.2	12.5	1.25	15.0	1.5	17.5	585
10	0.5	1.2	16.5	1.25	19.0	1.7	22	835
15	0.5	1.3	19.0	1.6	22	1.7	25	1180
20	0.5	1.3	21	1.6	25	1.8	28	1390
24	0.5	1.5	24	1.6	27	1.9	31	1620
30	0.5	1.5	26	1.6	30	1.9	33	1840
0.5mm² (7/0.3mm)								
2	0.6	1.1	10.5	0.9	12.5	1.4	15.0	370
3	0.6	1.1	11.5	0.9	13.0	1.5	15.5	410
5	0.6	1.2	14.0	1.25	16.0	1.5	18.5	630
10	0.6	1.3	18.5	1.6	22	1.7	25	1070
15	0.6	1.3	21	1.6	24	1.8	27	1320
20	0.6	1.5	24	1.6	27	1.8	30	1570
24	0.6	1.5	27	1.6	30	1.9	33	1790
30	0.6	1.7	30	2.0	34	2.0	37	2340
0.75mm² (1/0.96mm)								
2	0.6	1.1	11.0	0.9	13.0	1.5	15.0	390
3	0.6	1.1	11.5	0.9	13.5	1.5	16.0	430
5	0.6	1.2	14.0	1.25	16.5	1.6	19.0	675
10	0.6	1.3	19.0	1.6	22	1.7	25	1130
15	0.6	1.3	22	1.6	25	1.8	28	1400
20	0.6	1.5	25	1.6	28	1.9	31	1690
24	0.6	1.5	27	1.6	31	1.9	34	1910
30	0.6	1.7	30	2.0	34	2.0	38	2500
0.75mm² (7/0.37mm)								
2	0.6	1.1	11.5	0.9	13.5	1.5	16.0	410
3	0.6	1.2	12.5	1.25	15.0	1.5	17.5	575
5	0.6	1.2	15.0	1.25	17.5	1.6	20	720
10	0.6	1.3	20	1.6	24	1.7	26	1200
15	0.6	1.5	23	1.6	27	1.8	30	1510
20	0.6	1.5	26	1.6	29	1.9	32	1790
24	0.6	1.7	29	2.0	33	2.0	37	2340
30	0.6	1.7	32	2.0	36	2.1	40	2680

No. of pairs	Thickness of insulation nom. (mm)	Thickness of bedding nom. (mm)	Dia. over bedding approx. (mm)	Dia. of wire nom. (mm)	Dia. of armour approx. (mm)	Thickness of oversheath nom. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)
1.0mm² (1/1.13mm)								
2	0.6	1.1	11.5	0.9	13.5	1.5	16.0	420
3	0.6	1.2	12.5	1.25	15.0	1.5	17.5	585
5	0.6	1.2	15.0	1.25	17.5	1.6	20	740
10	0.6	1.3	20	1.6	24	1.8	27	1250
15	0.6	1.5	24	1.6	27	1.9	30	1600
20	0.6	1.7	27	2.0	31	2.0	34	2160
24	0.6	1.7	30	2.0	34	2.0	37	2450
30	0.6	2.0	33	2.0	37	2.2	41	2880
1.0mm² (7/0.43mm)								
2	0.6	1.2	12.5	1.25	15.0	1.5	17.5	555
3	0.6	1.2	13.0	1.25	16.0	1.5	18.0	610
5	0.6	1.2	16.0	1.25	18.0	1.6	21	780
10	0.6	1.3	22	1.6	25	1.8	28	1320
15	0.6	1.5	25	1.6	28	1.9	31	1700
20	0.6	1.5	28	1.6	31	2.0	34	2010
24	0.6	1.7	31	2.0	35	2.1	39	2620
30	0.6	2.0	35	2.0	39	2.2	43	3050
1.5mm² (7/0.53mm)								
2	0.6	1.2	13.5	1.25	16.0	1.6	19.0	630
3	0.6	1.2	14.5	1.25	17.0	1.6	19.5	705
5	0.6	1.3	17.5	1.6	21	1.7	24	1060
10	0.6	1.5	24	1.6	27	1.9	31	1590
15	0.6	1.7	28	2.0	32	2.0	35	2280
20	0.6	1.7	31	2.0	35	2.1	39	2680
24	0.6	2.0	35	2.0	39	2.2	43	3160
30	0.6	2.0	39	2.5	44	2.4	48	4090

300/500V PVC/PVC-SLA Multipair,collective screen

generally to BS 5308 Part2
Type1 and FURUKAWA standard

Construction

- Conductor
Plain annealed copper wires according to BS 6360(IEC 228)
- Insulation
PVC compound type T11 according to BS 6746
- Colour code
triple:black,white and red
numbering on black core for multitriple
- Cores twisted to pairsc
- Binder
Binder of polyester tape(except one triple cables)
- Screen
Collective screen of aluminium/polyester tape, 0.022mm thick, over tinned drain wire 0.5mm²
- Sheath
PVC compound type TM1 according to BS 6746, black
- Cable identification
Manufacturer's name and year of manufacture

Abbreviations

PVC : polyvinyl chloride
SWA : steel wire armour
SLA : aluminium/polyester tape collective screen

Application

for transmission of analogue and digital signals in and around process plants

Use

in dry and damp industrial areas (not recommended for underground burial)

Temperature rating

during operation : -30 up to +70
during installation : -10 up to +50

Min. bending radius

during operation : 6 × overall diameter
during installation : 8 × overall diameter

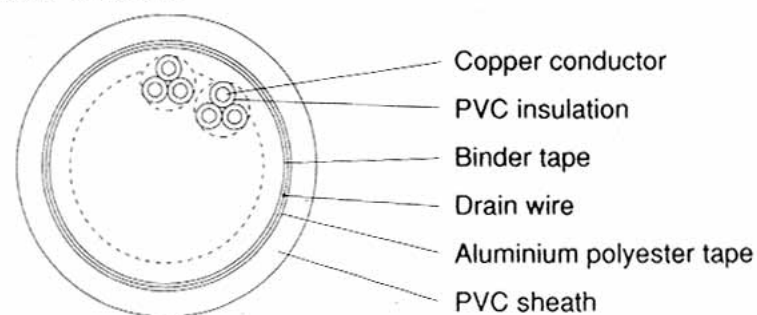
Other properties

flame retardant according to BS 4066 part1 (IEC 332 part1)

Electrical properties at 20

	Character	Unit	Conductor size						
			mm ² (No./mm)	0.5 (1/0.8)	0.5 (7/0.3)	0.75 (1/0.96)	0.75 (7/0.37)	1.0 (1/1.13)	1.0 (7/0.43)
Conductor resistance	max.	/km	36.8	36.7	25.0	25.0	18.4	18.5	12.3
Insulation resistance	min.	M · km	25						
Mutual capacitance of triples at 1kHz	max.	nF/km	250						
Inductance/resistance ratio (L/R)	max.	µH/	25						40
Test voltage (Core to core)		V	1000						
(Core to screen)		V	1000						

Cross-section of cable



Construction table

No. of triples	Thickness of insulation nom. (mm)	Thickness of sheath nom. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)
0.5mm² (1/0.8mm)				
1	0.5	0.8	5.8	48
2	0.5	1.1	10.5	115
3	0.5	1.1	11.0	140
5	0.5	1.2	13.5	205
10	0.5	1.3	18.5	340
15	0.5	1.3	21	455
0.5mm² (7/0.3mm)				
1	0.6	0.8	6.3	57
2	0.6	1.1	11.5	130
3	0.6	1.1	12.0	155
5	0.6	1.2	15.0	235
10	0.6	1.3	21	380
15	0.6	1.5	24	540
0.75mm² (1/0.96mm)				
1	0.6	0.8	6.4	63
2	0.6	1.1	12.0	155
3	0.6	1.1	12.5	195
5	0.6	1.2	15.0	285
10	0.6	1.3	21	480
15	0.6	1.5	24	680
0.75mm² (7/0.37mm)				
1	0.6	0.8	6.7	68
2	0.6	1.1	12.5	155
3	0.6	1.2	13.5	195
5	0.6	1.2	16.0	285
10	0.6	1.3	23	480
15	0.6	1.5	26	680
1.0mm² (7/1.13mm)				
1	0.6	0.8	6.8	73
2	0.6	1.1	12.5	170
3	0.6	1.2	13.5	220
5	0.6	1.2	16.0	320
10	0.6	1.3	23	540
15	0.6	1.5	26	780
1.0mm² (7/0.43mm)				
1	0.6	0.8	7.1	78
2	0.6	1.2	13.5	185
3	0.6	1.2	14.0	230
5	0.6	1.2	17.0	345
10	0.6	1.5	25	600
15	0.6	1.5	27	830
1.5mm² (7/0.53mm)				
1	0.6	0.8	7.8	99
2	0.6	1.2	14.5	235
3	0.6	1.2	15.5	295
5	0.6	1.3	19.0	455
10	0.6	1.5	27	790
15	0.6	1.7	31	1140

300/500V PVC/PVC-TSLA Multitriples, individual triple screen

generally to BS 5308 Part2
Type1 and FURUKAWA standard

Construction

- Conductor
Plain annealed copper wires according to BS 6360(IEC 228)
- Insulation
PVC compound type T11 according to BS 6746
- Colour code
triple:black,white and red
numbering on black core for multitriples
- Cores twisted to triples
- Screen
Triple screen of aluminium/polyester tape, 0.022mm thick, over tinned drain wire 0.5mm²
- Binder
Binder of polyester tape
- Sheath
PVC compound type TM1 according to BS 6746, black
- Cable identification
Manufacturer's name and year of manufacture

Abbreviations

PVC : polyvinyl chloride
TSLA : aluminium/polyester tape triple screen

Application

for transmission of analogues and digital signals in and around process plants

Use

in dry and damp industrial areas (not recommended for underground burial)

Temperature rating

during operation : -30 up to +70
during installation : -10 up to +50

Min. bending radius

during operation : 6 × overall diameter
during installation : 8 × overall diameter

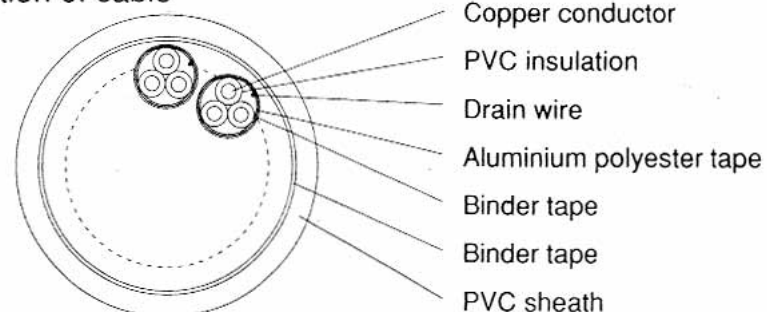
Other properties

flame retardant according to BS 4066 part1 (IEC 332 part1)

Electrical properties at 20

	Character	Unit	Conductor size						
			mm ² (No./mm)	0.5 (1/0.8)	0.5 (7/0.3)	0.75 (1/0.96)	0.75 (7/0.37)	1.0 (1/1.13)	1.0 (7/0.43)
Conductor resistance	max.	/km	36.8	36.7	25.0	25.0	18.4	18.5	12.3
Insulation resistance	min.	M · km	25						
Mutual capacitance of triples at 1kHz	max.	nF/km	250						
Inductance/resistance ratio (L/R)	max.	μ H/	25						40
Test voltage (Core to core)		V	1000						
(Core to screen)		V	1000						

Cross-section of cable



Construction table

No. of triples	Thickness of insulation nom. (mm)	Thickness of sheath nom. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)
0.5mm² (1/0.8mm)				
2	0.5	1.1	11.0	125
3	0.5	1.1	11.5	150
5	0.5	1.2	14.0	230
10	0.5	1.3	19.0	435
15	0.5	1.3	22	585
0.5mm² (7/0.3mm)				
2	0.6	1.1	12.0	140
3	0.6	1.1	12.5	170
5	0.6	1.2	15.0	255
10	0.6	1.3	21	490
15	0.6	1.5	24	680
0.75mm² (1/0.96mm)				
2	0.6	1.1	12.0	150
3	0.6	1.2	13.0	200
5	0.6	1.2	15.5	295
10	0.6	1.3	22	560
15	0.6	1.5	25	775
0.75mm² (7/0.37mm)				
2	0.6	1.2	13.0	170
3	0.6	1.2	13.5	215
5	0.6	1.2	16.5	315
10	0.6	1.5	24	620
15	0.6	1.5	26	840
1.0mm² (1/1.13mm)				
2	0.6	1.2	13.0	185
3	0.6	1.2	13.5	230
5	0.6	1.2	16.5	345
10	0.6	1.5	24	690
15	0.6	1.5	27	940
1.0mm² (7/0.43mm)				
2	0.6	1.2	13.5	195
3	0.6	1.2	14.5	245
5	0.6	1.2	17.5	375
10	0.6	1.5	25	740
15	0.6	1.5	28	1000
1.5mm² (7/0.53mm)				
2	0.6	1.2	15.0	245
3	0.6	1.2	16.0	315
5	0.6	1.3	19.5	485
10	0.6	1.5	28	950
15	0.6	1.7	31	1330

300/500V PVC/PVC/SWA/PVC-SLA
Multipair, collective screen, armour

generally to BS 5308 Part2
Type2 and FURUKAWA standard

Construction

- Conductor
Plain annealed copper wires according to BS 6360(IEC 228)
- Insulation
PVC compound type T11 according to BS 6746
- Colour code
triple:black,white and red numbering on black core for multitriple
- Cores twisted to pairs
- Binder
Binder of polyester tape(except one triple cables)
- Screen
Collective screen of aluminium/polyester tape, 0.022mm thick, over tinned drain wire 0.5mm²
- Bedding
PVC compound type TM1 according to BS 6746, black
- Armour
Galvanized steel wires
- Oversheath
PVC compound type TM1 according to BS 6746, black

- Cable identification
Manufacturer's name and year of manufacture

Abbreviations

- PVC : polyvinyl chloride
- SWA : steel wire armour
- SLA : aluminium/polyester tape collective screen

Application

for transmission of analogues and digital signals in and around process plants

Use

in dry and damp industrial areas (recommended for underground burial)

Temperature rating

during operation : -30 up to +70
during installation : -10 up to +50

Min. bending radius

during operation : 8 × overall diameter
during installation : 10 × overall diameter

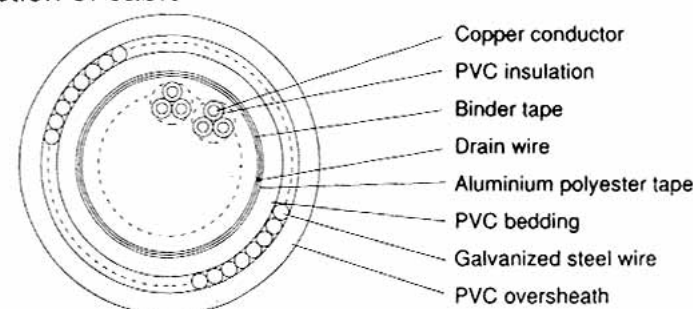
Other properties

flame retardant according to BS 4066 part1 (IEC 332 part1)

Electrical properties at 20

	Character	Unit	Conductor size						
			0.5 (1/0.8)	0.5 (7/0.3)	0.75 (1/0.96)	0.75 (7/0.37)	1.0 (1/1.13)	1.0 (7/0.43)	1.5 (7/0.53)
Conductor resistance	max.	/km	36.8	36.7	25.0	25.0	18.4	18.5	12.3
Insulation resistance	min.	M · km	25						
Mutual capacitance of triple at 1kHz	max.	nF/km	250						
Capacitance unbalance at 1kHz	max.	pF/250m	250						
Inductance/resistance ratio (L/R)	max.	µH/	25						40
Test voltage (Core to core)		V	1000						
(Core to screen)		V	1000						

Cross-section of cable



Construction table

No.of triples	Thickness of insulation nom. (mm)	Thickness of bedding nom. (mm)	Dia. over bedding approx. (mm)	Dia.of armour wire nom. (mm)	Dia. over armour approx. (mm)	Thickness of oversheath nom. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)
0.5mm² (1/0.8mm)								
1	0.5	0.8	5.8	0.9	7.6	1.3	10.0	215
2	0.5	1.1	10.0	0.9	12.0	1.4	14.0	360
3	0.5	1.1	11.0	0.9	12.5	1.4	15.0	395
5	0.5	1.2	13.0	1.25	15.5	1.5	18.0	620
10	0.5	1.3	18.5	1.6	22	1.7	25	1060
15	0.5	1.3	21	1.6	24	1.8	27	1260
0.5mm² (7/0.3mm)								
1	0.6	0.8	6.3	0.9	8.1	1.3	10.5	230
2	0.6	1.1	11.0	0.9	13.0	1.5	15.5	395
3	0.6	1.1	12.0	0.9	13.5	1.5	16.0	430
5	0.6	1.2	14.5	1.25	17.0	1.6	19.5	690
10	0.6	1.3	20	1.6	24	1.7	26	1170
15	0.6	1.5	23	1.6	26	1.8	29	1440
0.75mm² (1/0.96mm)								
1	0.6	0.8	6.4	0.9	8.2	1.3	11.0	245
2	0.6	1.1	11.5	0.9	13.0	1.5	15.5	415
3	0.6	1.1	12.0	0.9	14.0	1.5	16.5	460
5	0.6	1.2	15.0	1.25	17.0	1.6	20	725
10	0.6	1.3	21	1.6	24	1.8	27	1270
15	0.6	1.5	24	1.6	27	1.8	30	1560
0.75mm² (7/0.37mm)								
1	0.6	0.8	6.7	0.9	8.5	1.3	11.0	250
2	0.6	1.1	12.0	0.9	14.0	1.5	16.5	440
3	0.6	1.2	13.0	1.25	15.5	1.5	18.0	600
5	0.6	1.2	15.5	1.25	18.0	1.6	21	785
10	0.6	1.3	22	1.6	26	1.8	29	1370
15	0.6	1.5	25	1.6	29	1.9	32	1690
1.0mm² (1/1.13mm)								
1	0.6	0.8	6.8	0.9	8.6	1.3	11.0	265
2	0.6	1.1	12.0	0.9	14.0	1.5	16.5	450
3	0.6	1.2	13.0	1.25	15.5	1.5	18.0	630
5	0.6	1.2	16.0	1.25	18.0	1.6	21	820
10	0.6	1.3	22	1.6	26	1.8	29	1440
15	0.6	1.5	26	1.6	29	1.9	32	1820
1.0mm² (7/0.43mm)								
1	0.6	0.8	7.1	0.9	8.9	1.3	11.5	275
2	0.6	1.2	13.0	1.25	15.5	1.5	18.0	590
3	0.6	1.2	14.0	1.25	16.5	1.6	19.0	665
5	0.6	1.2	17.0	1.25	19.0	1.6	22	870
10	0.6	1.5	24	1.6	27	1.9	31	1570
15	0.6	1.5	27	1.6	30	1.9	33	1910
1.5mm² (7/0.53mm)								
1	0.6	0.8	7.8	0.9	9.6	1.4	12.0	300
2	0.6	1.2	14.5	1.25	17.0	1.6	20	685
3	0.6	1.2	15.0	1.25	18.0	1.6	21	785
5	0.6	1.3	18.5	1.6	22	1.7	25	1190
10	0.6	1.5	27	1.6	30	1.9	33	1860
15	0.6	1.7	30	2.0	34	2.0	38	2600

300/500V PVC/PVC/SWA/PVC-TSLA
Multitriple, individual triple screen, armour

generally to BS 5308 Part2
Type2 and FURUKAWA standard

Construction

- Conductor
Plain annealed copper wires according to BS 6360(IEC 228)
- Insulation
PVC compound type T11 according to BS 6746
- Colour code
triple:black,white and red
numbering on black core for multitriple
- Cores twisted to triples
- Screen
Collective screen of aluminium/polyester tape, 0.022mm thick, over tinned drain wire 0.5mm²
- Binder
Binder of polyester tape
- Bedding
PVC compound type TM1 according to BS 6746, black
- Armour
Galvanized steel wires
- Oversheath
PVC compound type TM1 according to BS 6746, black

- Cable identification
Manufacturer's name and year of manufacture

Abbreviations

- PVC : polyvinyl chloride
- SWA : steel wire armour
- TSLA : aluminium/polyester tape triple screen

Application

for transmission of analogue and digital signals in and around process plants

Use

in dry and damp industrial areas (recommended for underground burial)

Temperature rating

during operation : -30 up to +70
during installation : -10 up to +50

Min. bending radius

during operation : 8 × overall diameter
during installation : 10 × overall diameter

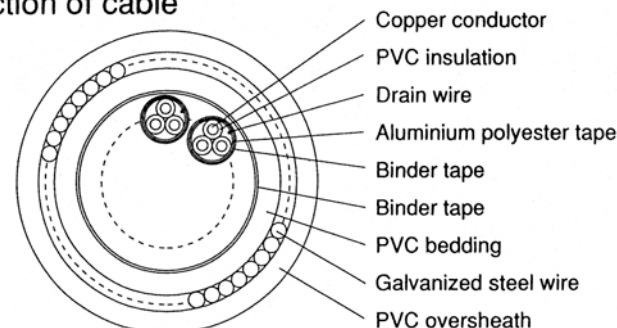
Other properties

flame retardant according to BS 4066 part1 (IEC 332 part1)

Electrical properties at 20

	Character	Unit	Conductor size							
			mm ² (No./mm)	0.5 (1/0.8)	0.5 (7/0.3)	0.75 (1/0.96)	0.75 (7/0.37)	1.0 (1/1.13)	1.0 (7/0.43)	1.5 (7/0.53)
Conductor resistance	max.	/km	36.8	36.7	25.0	25.0	18.4	18.5	12.3	
Insulation resistance	min.	M · km	25							
Mutual capacitance of triples at 1kHz	max.	nF/km	250							
Inductance/resistance ratio (L/R)	max.	μH/	25							40
Test voltage (Core to core)		V	1000							
(Core to screen)		V	1000							

Cross-section of cable



Construction table

No.of triples	Thickness of insulation nom. (mm)	Thickness of bedding nom. (mm)	Dia. over bedding approx. (mm)	Dia.of armour wire nom. (mm)	Dia. over armour approx. (mm)	Thickness of oversheath nom. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)
0.5mm² (1/0.8mm)								
2	0.5	1.1	10.5	0.9	12.0	1.4	14.5	370
3	0.5	1.1	11.0	0.9	13.0	1.5	15.0	415
5	0.5	1.2	13.5	1.25	16.0	1.5	18.5	645
10	0.5	1.3	19.0	1.6	22	1.7	25	1130
15	0.5	1.3	21	1.6	24	1.8	27	1400
0.5mm² (7/0.3mm)								
2	0.6	1.1	11.5	0.9	13.0	1.5	15.5	410
3	0.6	1.1	12.0	0.9	14.0	1.5	16.5	460
5	0.6	1.2	15.0	1.25	17.0	1.6	20	720
10	0.6	1.3	21	1.6	24	1.8	27	1270
15	0.6	1.5	24	1.6	27	1.8	30	1580
0.75mm² (1/0.96mm)								
2	0.6	1.1	11.5	0.9	13.5	1.5	16.0	430
3	0.6	1.2	12.5	1.25	15.0	1.5	17.5	595
5	0.6	1.2	15.0	1.25	17.5	1.6	20	770
10	0.6	1.3	22	1.6	25	1.8	28	1350
15	0.6	1.5	24	1.6	28	1.9	31	1710
0.75mm² (7/0.37mm)								
2	0.6	1.2	12.5	1.25	15.0	1.5	17.5	570
3	0.6	1.2	13.5	1.25	16.0	1.5	18.0	630
5	0.6	1.2	16.0	1.25	18.5	1.6	21	825
10	0.6	1.5	23	1.6	26	1.8	29	1470
15	0.6	1.5	26	1.6	29	1.9	32	1810
1.0mm² (1/1.13mm)								
2	0.6	1.2	12.5	1.25	15.0	1.5	17.5	585
3	0.6	1.2	13.5	1.25	16.0	1.5	18.0	645
5	0.6	1.2	16.0	1.25	18.5	1.6	21	865
10	0.6	1.5	23	1.6	27	1.8	30	1560
15	0.6	1.5	26	1.6	29	1.9	33	1930
1.0mm² (7/0.43mm)								
2	0.6	1.2	13.0	1.25	16.0	1.5	18.0	610
3	0.6	1.2	14.0	1.25	16.5	1.6	19.0	700
5	0.6	1.2	17.0	1.25	19.5	1.6	22	915
10	0.6	1.5	25	1.6	28	1.9	31	1650
15	0.6	1.5	28	1.6	31	1.9	34	2060
1.5mm² (7/0.53mm)								
2	0.6	1.2	14.5	1.25	17.0	1.6	19.5	705
3	0.6	1.2	15.5	1.25	18.0	1.6	21	800
5	0.6	1.3	19.0	1.6	22	1.7	25	1240
10	0.6	1.5	27	1.6	31	1.9	34	1950
15	0.6	1.7	31	2.0	35	2.1	39	2760