

## Technical Information

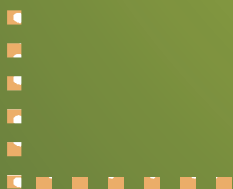
### PAS5308 Part 1

PAS5308 Cable Part 1 Color Code  
PAS5308 Cable Part 1 Ordering Code



### PA5308 Part 2

PAS5308 Cable Part 2 Color Code  
PAS5308 Cable Part 2 Ordering Code





## PAS 5308 Part 1 Colour code

### PAS 5308 Part 1 Colour Identification

Pair No.	a-wire	b-wire	Pair No.	a-wire	b-wire
1	Black	Blue	26	White	Yellow
2	Black	Green	27	Red	Yellow
3	Blue	Green	28	Orange	Yellow
4	Black	Brown	29	Black	Grey
5	Blue	Brown	30	Blue	Grey
6	Green	Brown	31	Green	Grey
7	Black	White	32	Brown	Grey
8	Blue	White	33	White	Grey
9	Green	White	34	Red	Grey
10	Brown	White	35	Orange	Grey
11	Black	Red	36	Yellow	Grey
12	Blue	Red	37	Black	Violet
13	Green	Red	38	Blue	Violet
14	Brown	Red	39	Green	Violet
15	White	Red	40	Brown	Violet
16	Black	Orange	41	White	Violet
17	Blue	Orange	42	Red	Violet
18	Green	Orange	43	Orange	Violet
19	Brown	Orange	44	Yellow	Violet
20	White	Orange	45	Grey	Violet
21	Red	Orange	46	Black	Turquoise
22	Black	Yellow	47	Blue	Turquoise
23	Blue	Yellow	48	Green	Turquoise
24	Green	Yellow	49	Brown	Turquoise
25	Brown	Yellow	50	White	Turquoise

Single Quad (2 pair) without individual screens are colour coded in clockwise order of rotation: Black, Blue, Green and Brown

They can also be coded as following:

#### a) Unscreened pairs

They can also be identified by means of a polyester tape over black and white pairs or, on agreement between the customer and manufacturer, one black and one blue core. Each core shall also be identified through marking by inscription of a number on the core's insulation in accordance with BS EN 50334. Both cores in a pair shall be marked with the same number.





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## b) Individually screened pairs

They can also be identified by means of a polyester tape over black and blue pairs or, on agreement between the customer and manufacturer, one black and one white core. Each pair shall be covered in a numbered polyester film. The numbering shall be such that each pair is distinguishable from any other pairs in the cable. The distance between each number shall not be greater than 50 mm.





## PAS 5308 Part 1- PE Insulated

### VDE Reference Code

#### PVC Sheath Version:

RE-2Y(St)Y (Overall Screen)

RE-2Y(St)Y PiMF(Individual Screen+Overall Screen)

RE-2Y(St)Y-SWA-Y(Overall Screen+Steel Wire Amour)

RE-2Y(St)Y PiMF-SWA-Y(Individual Screen+Overall Screen+Steel Wire Amour)

### Ordering Code

CCA -BC-DEFGH-IJ-K-LM

A- Cable Series

FSN=FIRESCREEN

B- Screen Type

US=Unscreen; OS=Overall Screen

IS=Individual Pair Screen;

IOS=Individual Pair Screen and Overall Screen;

FRUS=Fire Resistant Unscreen;

FROS=Fire Resistant Overall Screen;

FRIS=Fire Resistant Individual Pair Screen;

FRIOS=Fire Resistant Individual Pair Screen+Overall Screen

C- Rated Voltage

115=115/300V; 300=300/500V; 450=450/750V; 600=600/1000V

D- Insulation

2X= XLPE; Y= PVC; 2Y= PE;

H= LSHF; O2Y= Foam PE

E- Screening

ST=Aluminum / Polyester Tape

PIMF=Pair Shield with Aluminum/Polyester Tape





- PIC= Pair Shield with Copper Braid
- F- Inner Sheath/ Bedding  
Y= PVC; 2Y= PE; H= LSHF
- G- Armouring  
SWA=steel wire armour; STA=steel tape armour; SWB=steel wire braid;  
DSTA= double steel tape armour
- H- Sheath  
Y= PVC; Yu= FR-PVC;  
Yv=Reinforced PVC; 2Y= PE;  
H=LSHF
- I- No.of cores/Pairs/Triads/Quads  
2C=2cores; 3C=3cores; 4C=4cores
- J- Cross Section Area/Wire Gauge  
1.5S=1.5mm<sup>2</sup>; 2.5=2.5mm<sup>2</sup>  
1.91S(39/0.21)=1.91 mm<sup>2</sup> (39/0.21mm)  
24A(7)=24 AWG(7Strand)  
24A(16/0.2)=24 AWG(16/0.2mm)
- K- Standard(option)  
530811=PAS5308-1 Type1; 530812=PAS5308-1 Type2; 530813=PAS5308-1 Type3;  
530821=PAS5308-2 Type1; 530822=PAS5308-2 Type2;
- L- Fire Propagation Level(option)  
1=IEC60332-1; 3C=IEC60332-3C; 3A=IEC60332-3A
- M- Fire Resistant Level(option)  
331=IEC 60331; 6387CWZ=BS 6387 CWZ





## Ordering Options:

1) Conductor: Bare or Tinned Copper

2) Conductor Size: BS 6360/EN 60228

Size	Class 1	Class 2	Class 5	Class 6
0.5mm <sup>2</sup>	1/0.8mm	7/0.3mm	16/0.2mm	28/0.15mm
0.75mm <sup>2</sup>		7/0.37mm	24/0.2mm	42/0.15mm
1.0mm <sup>2</sup>	1/1.13mm	7/0.44mm	32/0.2mm	56/0.15mm
1.5mm <sup>2</sup>		7/0.53mm	30/0.25mm	84/0.15mm
2.5mm <sup>2</sup>		7/0.67mm	50/0.25mm	140/0.15mm

3) Conductor Resistance: BS 6360/EN 60228

Nominal cross-section area mm <sup>2</sup>	Plain copper conductor wires (Ohm/km)		Tinned copper conductor wires (Ohm/km)	
	class 1 and 2	Class 5 and 6	class 1 and 2	Class 5 and 6
0.5mm <sup>2</sup>	36	39	36.7	40.1
0.75mm <sup>2</sup>	24.5	26	24.8	26.7
1.0mm <sup>2</sup>	18.1	19.5	18.2	20
1.5mm <sup>2</sup>	12.1	13.3	12.2	13.7
2.5mm <sup>2</sup>	7.41	7.98	7.56	8.21

3) Insulation: PE/XLPE/LSF/LSOH

4) Screening: Aluminum Tape/Copper Braid

5) Cabling: Multicore/Multipair/Multitriple

6) Bedding/Sheath Material: PE /PVC/LSF/LSOH

7) Armouring: Steel Tape Armour/Steel Wire Armour

8) Fire Performance:

IEC 60332-1(for Flame Retardant PVC Sheath)

IEC 60332-3C(for Flame Retardant PVC/LSOH Sheath)

IEC 61034 Part 1&Part 2 (LSOH Sheath)

IEC 60754 Part 1&Part 2 (5%-15%LSF Sheath & 0.5%LSOH Sheath)

Oxygen Index(32%-40% depending on different LSOH compound )

Temperature Index(250°C-300°C,depending on different LSOH compound)

IEC 60331 (for Fire Resistant Type)







## PAS 5308 Part 2 Colour code

### PAS 5308 Part 2 Colour Identification

Pair No.	a-wire		b-wire	Pair No.	a-wire		b-wire
1	White		Blue	26	Red	Blue	Blue
2	White		Orange	27	Red	Blue	Orange
3	White		Green	28	Red	Blue	Green
4	White		Brown	29	Red	Blue	Brown
5	White		Grey	30	Red	Blue	Grey
6	Red	Blue	Blue	31	Blue	Black	Blue
7	Red	Orange	Orange	32	Blue	Black	Orange
8	Red	Green	Green	33	Blue	Black	Green
9	Red	Brown	Brown	34	Blue	Black	Brown
10	Red	Grey	Grey	35	Blue	Black	Grey
11	Black	Blue	Blue	36	Yellow	Blue	Blue
12	Black	Orange	Orange	37	Yellow	Blue	Orange
13	Black	Green	Green	38	Yellow	Blue	Green
14	Black	Brown	Brown	39	Yellow	Blue	Brown
15	Black	Grey	Grey	40	Yellow	Blue	Grey
16	Yellow	Blue	Blue	41	White	Orange	Blue
17	Yellow	Orange	Orange	42	White	Orange	Orange
18	Yellow	Green	Green	43	White	Orange	Green
19	Yellow	Brown	Brown	44	White	Orange	Brown
20	Yellow	Grey	Grey	45	White	Orange	Grey
21	White	Blue	Blue	46	Orange	Red	Blue
22	White	Blue	Orange	47	Orange	Red	Orange
23	White	Blue	Green	48	Orange	Red	Green
24	White	Blue	Brown	49	Orange	Red	Brown
25	White	Blue	Grey	50	Orange	Red	Grey

\*For bi- coloured cores the first colour is the base colour

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**They can also be coded as following:**

**a) Unscreened pairs**

They can also be identified by each pair in the cable having one black and one blue core. Each core shall also be identified through marking by inscription of a number on the core's insulation in accordance with BS EN 50334. Both cores in a pair shall be marked with the same number.

**b) Individually screened pairs**

They can also be identified by each pair in the cable having one black and one blue core. Each pair shall be covered in a numbered polyester film. The numbering shall be such that each pair is distinguishable from any other pairs in the cable. The distance between each number shall not be greater than 50 mm.

**For multicore cables**

**Up to 40 cores**

All cores shall be yellow and numbered 1 to 40 with both printed numbers and written word, in black, e.g. core 10 would be yellow and identified by number "10, TEN" in black.

**41 to 80 cores**

All cores shall be black and numbered 1 to 40 with both printed numbers and written word, in a contrasting colour, e.g. core 50 would be coloured black and identified by number "10, TEN" in yellow or white.







## PAS 5308 Part 2- PVC Insulated

### VDE Reference Code

#### PVC SheathType:

RE-Y(St)Y (Overall Screen)

RE-Y(St)Y PiMF(Individual Screen+Overall Screen)

RE-Y(St)Y-SWA(Overall Screen+Steel Wire Amour)

RE-Y(St)Y PiMF-SWA(Individual Screen+Overall Screen+Steel Wire Amour)

### Ordering Code

CCA-BC-DEFGH-IJ-K-LM

A- Cable Series

FSN=FIRESCREEN

B- ScreenType

US=Unscreen; OS=Overall Screen; IS=Individual Pair Screen;

IOS=Individual Pair Screen+Overall Screen; FRUS=Fire Resistant Unscreen;

FROS=Fire Resistant Overall Screen; FRIS=Fire Resistant Individual Pair Screen;

FRIOS=Fire Resistant Individual Pair Screen+Overall Screen

C- Rated Voltage

115=115/300V; 300=300/500V;

450=450/750V; 600=600/1000V

D- Insulation

2X=XLPE; Y=PVC; 2Y=PE;

H=LSOH; O2Y= Foam PE

E- Screening

ST=Aluminum/Polyester Tape

PIMF=Pair Shielded with Aluminum/Polyester Tape

PIC=Pair Shielded with Copper Screen





- F- Sheath  
Y=PVC; 2Y=PE; H=LSOH
- G- Armouring  
SWA=Steel Wire Armour; STA= Steel Tape Armour; SWB= Steel Wire Braid Armour;  
DSTA= Double Steel Tape Armour
- H- Sheath  
Y= PVC; Yu= FR-PVC;  
Yv=Reinforced PVC; 2Y= PE;  
H=LSHF
- I- No.of cores/Pairs/Triads/Quads  
2C=2cores; 3C=3cores; 4C=4cores
- J- Cross Section Area/Wire Gauge  
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1.5mm <sup>2</sup>		7/0.53mm	30/0.25mm	84/0.15mm
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	class 1 and 2	Class 5 and 6	class 1 and 2	Class 5 and 6
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1.0mm <sup>2</sup>	18.1	19.5	18.2	20
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4) Insulation: PVC/XLPE/LSF/LSOH

5) Screening: Aluminum Tape/Copper Braid

6) Cabling: Multicore/Multipair/Multitrip

7) Bedding/Sheath Material: PVC/LSF/LSOH(PVC/LSF/LSHF)

8) Armouring: Steel Tape Armour/Steel Wire Armour

9) Fire Performance:

IEC 60332-1 (for Flame Retardant PVC)

IEC 60332-3C (for Flame Retardant PVC/LSOH Sheath)

IEC 61034 Part 1&Part 2 (for LSOH Sheath)

IEC 60754 Part 1&Part 2 (5%-15%LSF Sheath & 0.5%LSOH Sheath)

Oxygen Index (32%-40% depending on different LSOH compound )

Temperature Index (250°C-300°C, depending on different LSOH compound)

IEC 60331 (for Fire Resistant Type)





## Caledonian Cables Ltd

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