

Conductor labelling according to DIN 47100 in pairs

Pair identification colour repetition after 45 pairs.

Electronic data cables and computer cables with paired stranding. The first colour is the base colour of the strand. For multiple colour strands of the pair, the identification consists of a base colour and a ring colour. The second colour is applied as ring marking, ring width approx. 2 – 3 mm. A certain amount of blur of the identification colour at the edges and a small offset of both half rings are permitted from a manufacturing technique perspective.

The manner of counting occurs from outside to inside through all layers pairwise consecutively.

Paired stranding

Pair no.		a-strand	b-strand
1	23 45	white	brown
2	24 46	green	yellow
3	25 47	grey	pink
4	26 48	blue	red
5	27 49	black	violet
6	28 50	grey/pink	red/blue
7	29 51	white/green	brown/green
8	30 52	white/yellow	yellow/brown
9	31 53	white/grey	grey/brown
10	32 54	white/pink	pink/brown
11	33 55	white/blue	brown/blue

Pair no.		a-strand	b-strand
12	34 56	white/red	brown/red
13	35 57	white/black	brown/black
14	36 58	grey/green	yellow/grey
15	37 59	pink/green	yellow/pink
16	38 60	green/blue	yellow/blue
17	39 61	green/red	yellow/red
18	40	green/black	yellow/black
19	41	grey/blue	pink/blue
20	42	grey/red	pink/red
21	43	grey/black	pink/black
22	44	blue/black	red/black

Colour table according to RAL

Colour abbreviation according to HD 457

Colour	Short abbreviation	RAL	DESINA Outer jacket colour	DIN 47002 German	IEC 757 English
black	sw	9005	Power cable	sw	BK
brown	bn	8003		br	BN
red	rt	3000		rt	RD
orange	org	2003	Power cable	or	OG
yellow	ge	1021	Sensor/actor cables	ge	YE
green	gn	6018	Signal cable	gn	GN
blue	bl	5015		bl	BU
violet	vio	4001	Bus/Fiber optic cable	vi	VT
silvergrey	gr	7001		gr	GY
pebble grey		7032			
window grey		7040	Control cable		
white	ws	9010		ws	WH
pink	rs	3015		pk	PK
turquoise (petrol)	tk	5018		tq	TQ
green/yellow	gnge	6018/1021		gnye	GNYE
silver		-			SR
dark blue	dbl	5010		dbl	
dark brown	dbn	8014		dbn	
transparent	tr	-		tr	

Colour code tables

Strand colour according to DIN VDE 0293-308

Cable and cables without green-yellow strand

Number of strands	Colours of the strands				
2	blue	brown	-	-	-
3	-	brown	black	grey	-
4	blue	brown	black	grey	-
5	blue	brown	black	grey	black

Cable and wires with green-yellow strand

Number of strands	Colours of the strands				
	Ground conductor	Active conductor			
3	green-yellow	blue	brown	-	-
4	green-yellow	-	brown	black	grey
5	green-yellow	blue	brown	black	grey

Not insulated concentric conductors, such as metallized jackets, armoring or shields are not considered as conductors in this table. a concentric conductor is identified by its arrangement and thus does not need to be identified by its colour.

Strand colours according to DIN 47100

Electronic data cables and computer cables with stranding with colour repetition after 45 strands. The first colour is the base colour of the strand.

For multiple colour strands, the identification marking consists of a base colour and a ring colour. The second or third colour respectively is applied as ring identification marking. Ring width approx. 2 – 3 mm. A certain amount of blur of the identification colour at the edges and a small offset of both half rings is permitted. The manner of counting occurs from outside to inside through all layers consecutively.

No. Base/ring colours	No. Base/ring colours
1 white	32 yellow/blue
2 brown	33 green/red
3 green	34 yellow/red
4 yellow	35 green/black
5 grey	36 yellow/black
6 pink	37 grey/blue
7 blue	38 pink/blue
8 red	39 grey/red
9 black	40 pink/red
10 violet	41 grey/black
11 grey/pink	42 pink/black
12 red/blue	43 blue/black
13 white/green	44 red/black
14 brown/green	45 white
15 white/yellow	46 brown
16 yellow/brown	47 green
17 white/grey	48 yellow
18 grey/brown	49 grey
19 white/pink	50 pink
20 pink/brown	51 blue
21 white/blue	52 red
22 brown/blue	53 black
23 white/red	54 violet
24 brown/red	55 grey/pink
25 white/black	56 red/blue
26 brown/black	57 white/green
27 grey/green	58 brown/green
28 yellow/grey	59 white/yellow
29 pink/green	60 yellow/brown
30 yellow/pink	61 white/grey
31 green/blue	

Strand colour according to IEC for electronic cables with AWG design

Strand no.	Colour
1	black
2	brown
3	red
4	orange
5	yellow
6	green
7	blue
8	violet
9	grey
10	white
11	white-black
12	white-brown

The double color green-yellow may only be used for the grounding conductor (yellow is the base color). For the remaining double colors, the base color is white respectively.

For possibly required additional double colors, grey or brown are recommended as additional base colors.