

Technical Data - Cable

Color Coding / Conductor Identification DIN 47100 / HD 308 / EN 50334 / RTD

■ Color code acc. to DIN 47100

conductor	base color	1st ring	2nd ring
1	white	—	—
2	brown	—	—
3	green	—	—
4	yellow	—	—
5	gray	—	—
6	pink	—	—
7	blue	—	—
8	red	—	—
9	black	—	—
10	violet	—	—
11	gray	pink	—
12	red	blue	—
13	white	green	—
14	brown	green	—
15	white	yellow	—
16	yellow	brown	—
17	white	gray	—
18	gray	brown	—
19	white	pink	—
20	pink	brown	—
21	white	blue	—
22	brown	blue	—
23	white	red	—
24	brown	red	—
25	white	black	—
26	brown	black	—
27	gray	green	—
28	yellow	gray	—
29	pink	green	—
30	yellow	pink	—
31	green	blue	—

conductor no.	base color	1st ring	2nd ring
32	yellow	blue	—
33	green	red	—
34	yellow	red	—
35	green	black	—
36	yellow	black	—
37	gray	blue	—
38	pink	blue	—
39	gray	red	—
40	pink	red	—
41	gray	black	—
42	pink	black	—
43	blue	black	—
44	red	black	—
45	white	brown	black
46	yellow	green	black
47	gray	pink	black
48	red	blue	black
49	white	green	black
50	brown	green	black
51	white	yellow	black
52	yellow	brown	black
53	white	gray	black
54	gray	brown	black
55	white	pink	black
56	pink	brown	black
57	white	blue	black
58	brown	blue	black
59	white	red	black
60	brown	red	black
61	black	white	—

■ Conductor identification acc. to HD 308

Identification of conductors in cables and flexible cords by colors

no. of conductors	cables with green/yellow ground	cables without green/yellow ground
1-conductor	—	nature
2-conductors	—	blue - brown
3-conductors	green/yellow - blue - brown	brown - black - gray
4-conductors	green/yellow - brown - black - gray	blue - brown - black - gray
5-conductors	green/yellow - blue - brown - black - gray	blue - brown - black - gray - black
6-conductors	green/yellow - black conductors numbered	black conductors numbered

■ Conductor identification with numbers acc. to EN 50334

Marking inscription for identification of conductors of electric cables (number printing).
Other conductor colors are allowed except green and yellow.

■ SAB color code for RTD connection cables

no. of conductors	color code
2-conductors	red - white
3-conductors	red - red - white
4-conductors	red - red - white - white
6-conductors	red - red - white - white - black - black

up to 4 conductors acc. to IEC 60751,
6 conductors deviating from standard

■ Color-coding to customer specification is also possible.

Technical Data - Cable

Color Coding / Conductor Identification US 1 / US 2 / US 3

■ Color code US 1

conductor no.	color	conductor no.	color
1	black	7	orange
2	white	8	yellow
3	red	9	violet
4	green	10	gray
5	brown	11	pink
6	blue	12	beige

■ Color code US 2

conductor no.	base color	1st ring	2nd ring
1	black	—	—
2	white	—	—
3	red	—	—
4	green	—	—
5	orange	—	—
6	blue	—	—
7	white	black	—
8	red	black	—
9	green	black	—
10	orange	black	—
11	blue	black	—
12	black	white	—
13	red	white	—
14	green	white	—
15	blue	white	—
16	black	red	—
17	white	red	—
18	orange	red	—
19	blue	red	—
20	red	green	—
21	orange	green	—
22	black	white	red
23	white	black	red
24	red	black	white
25	green	black	white

conductor no.	base color	1st ring	2nd ring
26	orange	black	white
27	blue	black	white
28	black	red	green
29	white	red	green
30	red	black	green
31	green	black	orange
32	orange	black	green
33	blue	white	orange
34	black	white	orange
35	white	red	orange
36	orange	white	blue
37	white	red	blue
38	black	white	green
39	white	black	green
40	red	white	green
41	green	white	blue
42	orange	red	green
43	blue	red	green
44	black	white	blue
45	white	black	blue
46	red	white	blue
47	green	orange	red
48	orange	red	blue
49	blue	red	orange
50	black	orange	red

■ Color code US 3

pair no.	color combination		
1	black	paired with	red
2	black	paired with	white
3	black	paired with	green
4	black	paired with	blue
5	black	paired with	yellow
6	black	paired with	brown
7	black	paired with	orange
8	red	paired with	white
9	red	paired with	green
10	red	paired with	blue
11	red	paired with	yellow
12	red	paired with	brown
13	red	paired with	orange
14	green	paired with	white
15	green	paired with	blue
16	green	paired with	yellow
17	green	paired with	brown
18	green	paired with	orange

pair no.	color combination		
20	white	paired with	yellow
21	white	paired with	brown
22	white	paired with	orange
23	blue	paired with	yellow
24	blue	paired with	brown
25	blue	paired with	orange
26	brown	paired with	yellow
27	brown	paired with	orange
28	orange	paired with	yellow
29	violet	paired with	orange
30	violet	paired with	red
31	violet	paired with	white
32	violet	paired with	green
33	violet	paired with	blue
34	violet	paired with	yellow
35	violet	paired with	brown
36	violet	paired with	black
37	gray	paired with	white

Technical Data - Cable

Color Coding / Conductor Identification US 4 / US 5 / US 6

■ Color code US 4

conductor no.	base color	1st ring
1	black	—
2	brown	—
3	red	—
4	orange	—
5	yellow	—
6	green	—
7	blue	—
8	violet	—
9	gray	—
10	white	—
11	white	black
12	white	brown
13	white	red
14	white	orange
15	white	yellow
16	white	green
17	white	blue
18	white	violet
19	white	gray

conductor no.	base color	1st ring	2nd ring
20	white	black	brown
21	white	black	red
22	white	black	orange
23	white	black	yellow
24	white	black	green
25	white	black	blue
26	white	black	violet
27	white	black	gray
27	white	black	gray
28	white	brown	red
29	white	brown	orange
30	white	brown	yellow
31	white	brown	green
32	white	brown	blue
33	white	brown	violet
34	white	brown	gray
35	white	red	orange
36	white	red	yellow
37	white	red	green

conductor no.	base color	1st ring	2nd ring
38	white	red	blue
39	white	red	violet
40	white	red	gray
41	white	orange	yellow
42	white	orange	green
43	white	orange	blue
44	white	orange	violet
45	white	orange	gray
46	white	yellow	green
47	white	yellow	blue
48	white	yellow	violet
49	white	yellow	gray
50	white	green	blue
51	white	green	violet
52	white	green	gray
53	white	blue	violet
54	white	blue	gray
55	white	violet	gray

■ Color code US 5

pair no.	color combination	
1	black	paired with red
2	black	paired with white
3	black	paired with green
4	black	paired with blue
5	black	paired with brown
6	black	paired with yellow
7	black	paired with orange
8	red	paired with green
9	red	paired with white
10	red	paired with blue
11	red	paired with yellow
12	red	paired with brown
13	red	paired with orange
14	green	paired with blue
15	green	paired with white
16	green	paired with brown
17	green	paired with orange
18	green	paired with yellow
19	white	paired with blue
20	white	paired with brown
21	white	paired with orange
22	white	paired with yellow
23	blue	paired with brown
24	blue	paired with orange
25	blue	paired with yellow
26	brown	paired with orange

pair no.	color combination	
27	brown	paired with yellow
28	violet	paired with red
29	violet	paired with white
30	violet	paired with green
31	violet	paired with blue
32	violet	paired with brown
33	violet	paired with yellow
34	violet	paired with orange
35	violet	paired with gray
36	violet	paired with black
37	gray	paired with red
38	gray	paired with white
39	gray	paired with green
40	gray	paired with blue
41	gray	paired with brown
42	gray	paired with yellow
43	gray	paired with orange
44	gray	paired with black
45	white/black	paired with red
46	white/black	paired with green
47	white/black	paired with blue
48	white/black	paired with brown
49	white/black	paired with yellow
50	white/black	paired with orange
51	white/black	paired with violet

■ Color code US 6

conductor no.	base color	1st ring	2nd ring
1	black	—	—
2	red	—	—
3	white	—	—
4	green	—	—
5	orange	—	—
6	blue	—	—
7	brown	—	—
8	yellow	—	—
9	violet	—	—

conductor no.	base color	1st ring	2nd ring
10	gray	—	—
11	pink	—	—
12	tan	—	—
13	red	green	—
14	red	yellow	—
15	red	black	—
16	white	black	—
17	white	red	—
18	white	green	—

conductor no.	base color	1st ring	2nd ring
19	white	yellow	—
20	white	blue	—
21	white	brown	—
22	white	orange	—
23	white	gray	—
24	white	violet	—
25	white	black	red