

Color Code Charts

Chart 1

ÖLFLEX® 590 P/CP, C304/C304 S, D304 OS

Conductor	Color	Conductor	Color	Conductor	Color
1	black	5	brown	9	violet
2	white	6	blue	10	gray
3	red	7	orange	11	pink
4	green*	8	yellow	12	tan

* Cables with CE approval have green/yellow conductor for #4

Numbers are spaced 20 - 55 mm apart and are inverted with underline

Chart 2

C304/304 S, UNITRONIC® 190/190 CY

Conductor	Color	Conductor	Color	Conductor	Color	Conductor	Color
1	black	17	white/red	33	blue/white/orange	49	blue/orange/red
2	white	18	orange/red	34	black/white/orange	50	black/orange/red
3	red	19	blue/red	35	white/red/orange	51	white/black/orange
4	green	20	red/green	36	orange/white/blue	52	red/orange/black
5	orange	21	orange/green	37	white/red/blue	53	green/red/blue
6	blue	22	black/white/red	38	black/white/green	54	orange/black/blue
7	white/black	23	white/black/red	39	white/black/green	55	blue/black/orange
8	red/black	24	red/black/white	40	red/white/green	56	black/orange/green
9	green/black	25	green/black/white	41	green/white/blue	57	white/orange/green
10	orange/black	26	orange/black/white	42	orange/red/green	58	red/orange/green
11	blue/black	27	blue/black/white	43	blue/red/green	59	green/black/blue
12	black/white	28	black/red/green	44	black/white/blue	60	orange/green/blue
13	red/white	29	white/red/green	45	white/black/blue	61	black/orange/blue
14	green/white	30	red/black/green	46	red/white/blue		
15	blue/white	31	green/black/orange	47	green/orange/red		
16	black/red	32	orange/black/green	48	orange/red/blue		

Chart 3

D304 IS/OS, UNITRONIC® CY TP

Pair	Color	Pair	Color	Pair	Color
1	black + red	14	green + white	27	brown + orange
2	black + white	15	green + blue	28	orange + yellow
3	black + green	16	green + yellow	29	violet + orange
4	black + blue	17	green + brown	30	violet + red
5	black + yellow	18	green + orange	31	violet + white
6	black + brown	19	white + blue	32	violet + dark green
7	black + orange	20	white + yellow	33	violet + light blue
8	red + white	21	white + brown	34	violet + yellow
9	red + green	22	white + orange	35	violet + brown
10	red + blue	23	blue + yellow	36	violet + black
11	red + yellow	24	blue + brown	37	gray + white
12	red + brown	25	blue + orange		
13	red + orange	26	brown + yellow		

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Chart 4

UNITRONIC® 300/300 CY (24 - 22 AWG)

Conductor	Color	Conductor	Color	Conductor	Color	Conductor	Color
1	black	14	white/orange	27	white/black/gray	40	white/red/gray
2	brown	15	white/yellow	28	white/brown/red	41	white/orange/yellow
3	red	16	white/green	29	white/brown/orange	42	white/orange/green
4	orange	17	white/blue	30	white/brown/yellow	43	white/orange/blue
5	yellow	18	white/violet	31	white/brown/green	44	white/orange/violet
6	green	19	white/gray	32	white/brown/blue	45	white/orange/gray
7	blue	20	white/black/brown	33	white/brown/violet	46	white/yellow/green
8	violet	21	white/black/red	34	white/brown/gray	47	white/yellow/blue
9	gray	22	white/black/orange	35	white/red/orange	48	white/yellow/violet
10	white	23	white/black/yellow	36	white/red/yellow	49	white/yellow/gray
11	white/black	24	white/black/green	37	white/red/green	50	white/green/blue
12	white/brown	25	white/black/blue	38	white/red/blue		
13	white/red	26	white/black/violet	39	white/red/violet		

Chart 5

UNITRONIC® 300/300 CY (20 - 16 AWG)

Conductor	Color	Conductor	Color	Conductor	Color	Conductor	Color
1	black	14	red/yellow	27	white/black/yellow	40	white/green/black
2	red	15	red/black	28	white/black/blue	41	white/green/red
3	white	16	white/black	29	white/black/brown	42	white/green/green
4	green	17	white/red	30	white/black/orange	43	white/green/blue
5	orange	18	white/green	31	white/black/gray	44	white/green/brown
6	blue	19	white/yellow	32	white/black/violet	45	white/green/violet
7	brown	20	white/blue	33	white/black/black	46	white/blue/black
8	yellow	21	white/brown	34	white/red/black	47	white/blue/red
9	violet	22	white/orange	35	white/red/red	48	white/blue/green
10	gray	23	white/gray	36	white/red/green	49	white/blue/blue
11	pink	24	white/violet	37	white/red/blue	50	white/blue/brown
12	tan	25	white/black/red	38	white/red/brown		
13	red/green	26	white/black/green	39	white/red/violet		

Chart 6: VDE 0293-308

# of Conductors	Cables with green/yellow ground	Cables without green/yellow ground
2	—	blue + brown
3	green/yellow ground + brown + blue	brown + black + gray
4	green/yellow ground + brown + black + gray	blue + brown + black + gray
5	green/yellow ground + blue + brown + black + gray	blue + brown + black + gray + black
6 and above	green/yellow ground with printed numbers	black with printed numbers

Flexible Cables built to DIN VDE 0293:

ÖLFLEX® CLASSIC 100
 ÖLFLEX® CLASSIC 100 CY
 ÖLFLEX® CLASSIC 100 SY
 ÖLFLEX® 540 P
 ÖLFLEX® CRANE
 ÖLFLEX® CRANE F
 ÖLFLEX® CRANE NSHTOU
 ÖLFLEX® CRANE PUR

ÖLFLEX® CRANE VS (N) NSHTOU
 ÖLFLEX® HEAT 180 MS
 ÖLFLEX® HEAT 180 SiHF
 ÖLFLEX® HEAT 180 GLS
 ÖLFLEX® HEAT 180 H05SS-F EWKF
 ÖLFLEX® HEAT 145 MC
 ÖLFLEX® H05VV-F
 ÖLFLEX® H07RN-F

ÖLFLEX® LIFT F
 ÖLFLEX® POWER IX
 ÖLFLEX® POWER QUAD II
 ÖLFLEX® SERVO 9YSLCY-JB
 ÖLFLEX® SERVO 2YSLCY-JB
 ÖLFLEX® SPIRAL H07BQ-F

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Chart 7: DIN 47100 for Paired Cables (for telephone & electronic use only)

UNITRONIC® CY PiDY (TP), UNITRONIC® FD CP (TP), UNITRONIC® LIHCH (TP), UNITRONIC® LIYCY (TP)

UNITRONIC® FD CP (TP)
UNITRONIC® CY PiDY (TP)
UNITRONIC® LIYCY (TP)
UNITRONIC® LIYCY (TP)
INTERBUS bus cables
PROFIBUS bus cables
MITSUBISHI CCL BUS

The color code for paired cables is in accordance with DIN 47100. At 23 pairs, the identification repeats itself for the first time and from 45 pairs for the second time.

Pair	Color	Pair	Color
1	white + brown	13	white/black + brown/black
2	green + yellow	14	gray/green + yellow/gray
3	gray + pink	15	pink/green + yellow/pink
4	blue + red	16	green/blue + yellow/blue
5	black + violet	17	green/red + yellow/red
6	gray/pink + red/blue	18	green/black + yellow/black
7	white/green + brown/green	19	gray/blue + pink/blue
8	white/yellow + yellow/brown	20	gray/red + pink/red
9	white/gray + gray/brown	21	gray/ black + pink/black
10	white/pink + pink/brown	22	blue/black + red/black
11	white/blue + brown/blue	23-44	repeat 1-22
12	white/red + brown/red	45-66	repeat 1-22

Chart 8: DIN 47100 without color repetition (for telephone & electronic use only)

ÖLFLEX® ROBOT 900 P/DP, ÖLFLEX® ROBOT F1/F1 C, UNITRONIC® BUS CAN/CAN FD, UNITRONIC® BUS INTERBUS, UNITRONIC® FD 890, UNITRONIC® FD/FD CY/FD P plus/FD CP plus, UNITRONIC® LD/LD FD P, UNITRONIC® LIHH/LIHCH, UNITRONIC® LIYY/LIYCY, UNITRONIC® SPIRAL

Conductor	Color	Conductor	Color	Conductor	Color	Conductor	Color
1	white	17	white/gray	33	green/red	49	white/green/black
2	brown	18	gray/brown	34	yellow/red	50	brown/green/black
3	green	19	white/pink	35	green/black	51	white/yellow/black
4	yellow	20	pink/brown	36	yellow/black	52	yellow/brown/black
5	gray	21	white/blue	37	gray/blue	53	white/gray/black
6	pink	22	brown/blue	38	pink/blue	54	gray/brown/black
7	blue	23	white/red	39	gray/red	55	white/pink/black
8	red	24	brown/red	40	pink/red	56	pink/brown/black
9	black	25	white/black	41	gray/black	57	white/blue/black
10	violet	26	brown/black	42	pink/black	58	brown/blue/black
11	gray/pink	27	gray/green	43	blue/black	59	white/red/black
12	red/blue	28	yellow/gray	44	red/black	60	brown/red/black
13	white/green	29	pink/green	45	white/brown/black	61	black/white
14	brown/green	30	yellow/pink	46	yellow/green/black		
15	white/yellow	31	green/blue	47	gray/pink/black		
16	yellow/brown	32	yellow/blue	48	red/blue/black		

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Chart 9: Six or More Conductors

ÖLFLEX® PUR S

Conductor	Color	Conductor	Color	Conductor	Color	Conductor	Color
0	green/yellow	26	violet/black	52	transparent/red	78	tan/white/blue
1	white	27	pink/black	53	tan/red	79	gray/white/brown
2	black	28	orange/black	54	pink/violet	80	red/white/brown
3	blue	29	transparent/black	55	orange/violet	81	violet/white/brown
4	brown	30	tan/black	56	transparent/violet	82	pink/white/brown
5	gray	31	brown/blue	57	tan/violet	83	orange/white/brown
6	red	32	gray/blue	58	transparent/pink	84	transparent/white/brown
7	violet	33	red/blue	59	tan/pink	85	tan/white/brown
8	pink	34	pink/blue	60	transparent/orange	86	red/white/gray
9	orange	35	orange/blue	61	tan/orange	87	violet/white/gray
10	transparent	36	transparent/blue	62	blue/white/black	88	pink/white/gray
11	tan	37	tan/blue	63	brown/white/black	89	orange/white/gray
12	black/white	38	gray/brown	64	gray/white/black	90	transparent/white/gray
13	blue/white	39	red/brown	65	red/white/black	91	tan/white/gray
14	brown/white	40	violet/brown	66	violet/white/black	92	blue/white/red
15	gray/white	41	pink/brown	67	pink/white/black	93	brown/white/red
16	red/white	42	orange/brown	68	orange/white/black	94	violet/white/red
17	violet/white	43	transparent/brown	69	transparent/white/black	95	pink/white/red
18	pink/white	44	tan/brown	70	tan/white/black	96	orange/white/red
19	orange/white	45	red/gray	71	brown/white/blue	97	brown/white/violet
20	transparent/white	46	violet/gray	72	gray/white/blue	98	orange/white/violet
21	tan/white	47	pink/gray	73	red/white/blue	99	brown/black/blue
22	blue/black	48	orange/gray	74	violet/white/blue	100	gray/black/blue
23	brown/black	49	transparent/gray	75	pink/white/blue	101	red/black/blue
24	gray/black	50	tan/gray	76	orange/white/blue		
25	red/black	51	orange/red	77	transparent/white/blue		

Chart 10: ICEA-NEMA (K-2)

ÖLFLEX® TC 600

Conductor	Color	Conductor	Color	Conductor	Color	Conductor	Color
1	black	7	red/black	13	blue/red	19	orange/blue
2	red	8	blue/black	14	orange/red	20	yellow/blue
3	blue	9	orange/black	15	yellow/red	21	brown/blue
4	orange	10	yellow/black	16	brown/red	22	black/orange
5	yellow	11	brown/black	17	black/blue	23	red/orange
6	brown	12	black/red	18	red/blue	24	blue/orange

The last conductor of the cable is always green/yellow (30% stripe width) with no printing.

Example:

Lapp USA P/N 2118152 is a 12 conductor cable. The base color for this cable is black and printed with white ink as follows:

1: black, 2: red, 3: blue, 4: orange, 5: yellow, 6: brown, 7: red/black, 8: blue/black, 9: orange/black, 10: yellow/black, 11: brown/black, 12: green/yellow