

COLE Wire & Cable presents



NEUFLEX[®]

*European Rated
Flexible Cable,
Cord and
Hook-Up Wire*

What Is Neuflex...

Neuflex is a full line of European-rated hook-up wire, flexible control cable, portable cord and other special use cables.

Neuflex represents the best of all the European manufacturers – featuring harmonized <HAR>, VDE, CE, UL & CSA ratings. These cables are used in a variety of applications requiring oil-resistance, flexibility, extreme temperature resistance and continual flexing for robotics. They come unshielded, shielded with copper braid for RF protection or shielded with steel braid for abrasion and crush resistance.

This catalog shows a representation of the most common European rated cables used in a variety of flexing applications. The range of

these applications include static installs requiring tight bending radii to control cables with continual flexing of 10 million cycles for robotic machines. The Neuflex brand includes many other varieties of European rated cables for specific uses not shown in this catalog. If you don't see the type and/or configuration you need, call Cole Wire and we will help you find the right solution.

Compare Neuflex

Turn to the Cross Reference in the back of this catalog to find the Neuflex brand equivalent to Olflex Cable. Contact us to compare price, delivery and special services. We're sure you'll find it worth your while.

...And Why Cole Is Your Best Source.

Cole Wire & Cable is one of the largest stocking distributors of specialty wire and cable in the United States. We inventory millions of dollars of all types of electrical and electronic wire and cable including the Neuflex brand cables.

We bring to our customers the unique attention and service required to find solutions to their special application needs. Fast and accurate response to your inquiries and orders is what sets Cole Wire apart from the competition. Our Chicago area warehouse is centrally located to ensure reliable service.

In addition to fast turnaround time, we offer:

- Custom Cutting at No Extra Charge
- No Minimums
- Special Packaging
- Stocking Programs
- Custom Design & Build
- 24 Hour Emergency Hotline

So whatever your wire and cable needs, just call our knowledgeable customer service representatives or check out our website, www.colewire.com, for the latest news on products and specials as well as real-time inventories.



COLE

WEBSITE: www.colewire.com

PHONE: 1-800-323-1403

FAX: (847) 634-4988

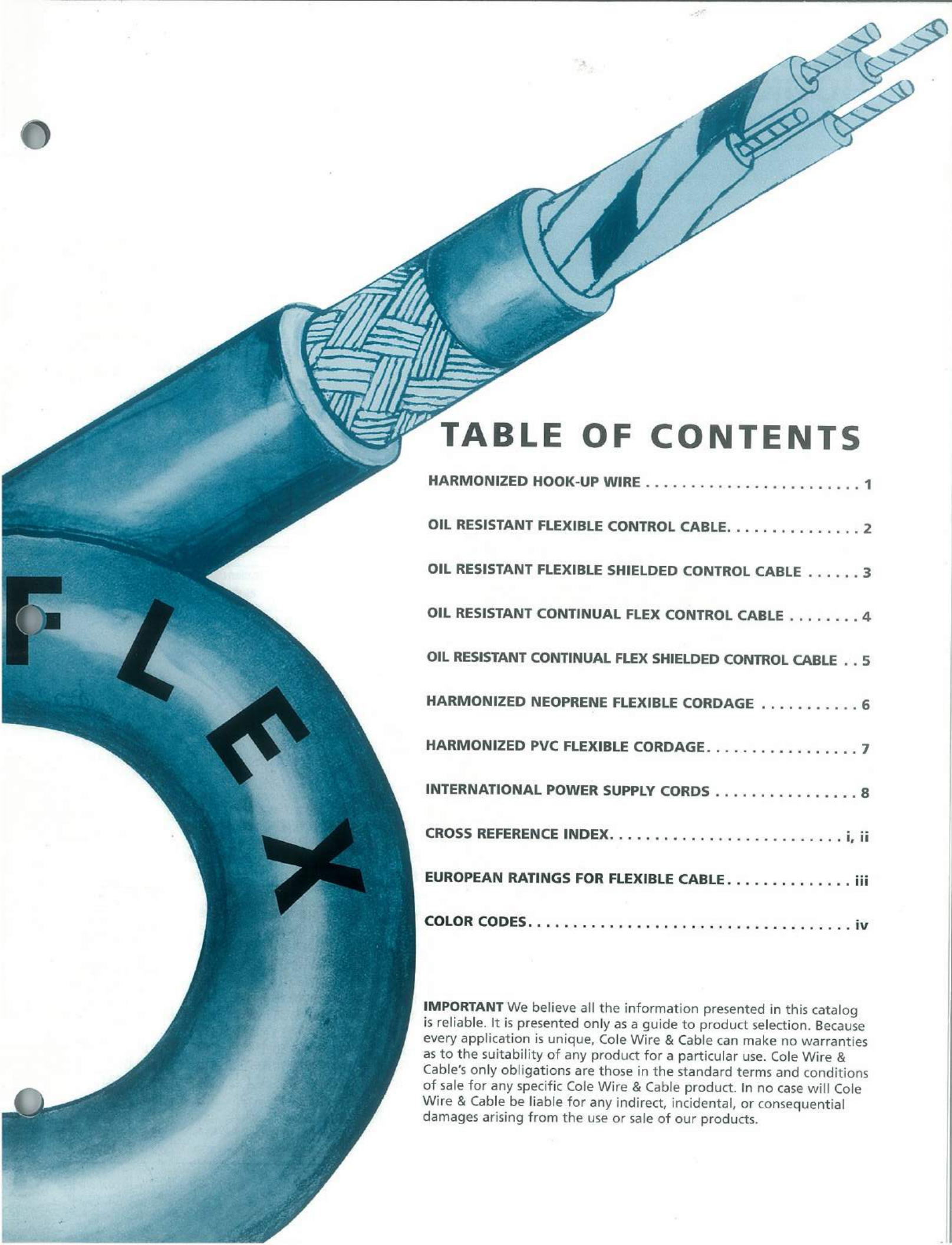


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IMPORTANT We believe all the information presented in this catalog is reliable. It is presented only as a guide to product selection. Because every application is unique, Cole Wire & Cable can make no warranties as to the suitability of any product for a particular use. Cole Wire & Cable's only obligations are those in the standard terms and conditions of sale for any specific Cole Wire & Cable product. In no case will Cole Wire & Cable be liable for any indirect, incidental, or consequential damages arising from the use or sale of our products.

HARMONIZED EUROPEAN HOOK UP WIRE

HO5V-K
HO7V-K

<HAR>UL/CSA

APPLICATIONS:

For use in electrical and electronic equipment for export to European countries as well as replacement wire for European made equipment.

STANDARDS:

HD 21.1 S2, HD 21.1, HD 21.3 S2, HD 308, 361, 383, 385, 402, 405.1 VDE 0812 (HO5), 028 (HO7), 0295 class 5 ICE 227.2, 227.5, 228, 0304, 332.1, 540 BS 6500, DIN 57281, 57250

COLOR CODE

01 green/yellow, 02 black, 03 blue, 04 brown, 05 red, 06 white, 07 gray, 08 violet, 09 pink, 10 orange, 11 dark blue, 12 yellow

To specify color add the 2 digit Color Code to the end of part number.

Example: 5VK2001

Part No.	Conductor Size	Nominal inches	OD mm	Approx. lbs/mft
HO5V-K PVC				
5VK20	20 AWG (16/32) .5 mm ²	.083	2.1	5.8
5VK18	18 AWG (24/32) .75 mm ²	.094	2.4	7.5

Part No.	Conductor Size	Nominal inches	OD mm	Approx. lbs/mft
HO7V-K PVC				
7VK16	16 AWG (30/30) 1.5 mm ²	.118	3.0	14.5
7VK14	14 AWG (50/30) 2.5 mm ²	.146	3.7	21
7VK12	12 AWG (56/28) 4 mm ²	.169	4.3	31
7VK10	10 AWG (84/28) 6 mm ²	.193	4.9	45
7VK08	8 AWG (80/26) 10 mm ²	.256	6.5	77
7VK06	6 AWG (128/26) 16 mm ²	.315	8.0	117
7VK04	4 AWG (200/26) 25 mm ²	.386	9.8	199
7VK02	2 AWG (280/26) 35 mm ²	.433	11.0	265
7VK01	1 AWG (400/26) 50 mm ²	.512	13.0	346
7VK2/0	2/0 AWG (560/25) 70 mm ²	.610	17.0	615
7VK3/0	3/0 AWG (485/24) 95 mm ²	.669	17.0	615
7VK4/0	4/0 AWG (514/24) 120 mm ²	.776	19.7	772
7VK300	300 MCM AWG (765/24) 150 mm ²	.839	21.3	975
7VK370	370 MCM AWG (944/24) 185 mm ²	.925	23.5	1196
7VK480	480 MCM AWG (1255/25) 240 mm ²	1.079	27.4	1575



Rated Temperature

Flexible use — -30°C to +70°C



Insulation Resistance

20 GWx cm



Rated Voltage

HO5V-K 300/500 V
HO7V-K 450/750 V



Conductor Stranding

Fine wire per VDE 0295



Test Voltage

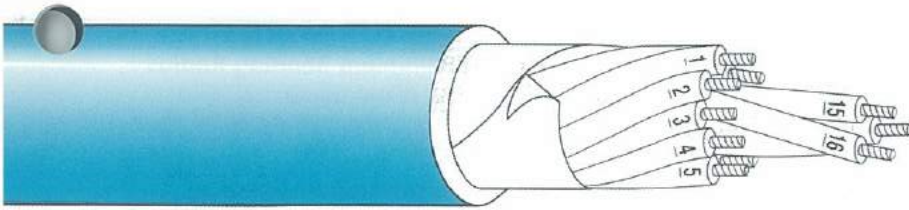
HO5V-K 2000 V
HO7V-K 2500 V



Approvals

HAR
(Conforms to CE Directives)

OIL RESISTANT FLEXIBLE CONTROL CABLE



ORF CABLE

90°C 600 VOLT

APPLICATIONS:

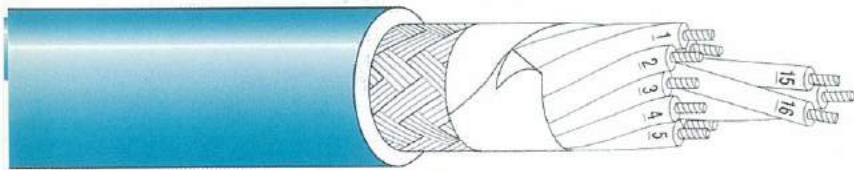
Power supply, machine tools, control panel connections, CNC machining centers. Suitable for use in dry, damp and wet applications. Consult factory for cable tray applications. Cable also available with polyurethane jacket.

	Minimum Bending Radius 8 x cable diameter
	Insulation Resistance 20 GΩ x cm
	Rated Temperature Flexible use — -10°C to +90°C Stationary use — -40°C to +90°C
	Conductor Stranding Fine wire per VDE 0295
	Rated Voltage 600 volt
	Approvals UL AWM, CSA AWM II A/B, FT1
	Test Voltage 3000 volt
	Color Code Black w/white numbers plus green/yellow with gray oil resistant PVC jacket (RAL 7001)

Part No.	Number of cond.	Nominal inches	OD mm	Weight lbs/mft	Approx. kg/km
20 AWG (12/30) 0.50 mm²					
ORF2002	2	.228	5.8	39	58
ORF2003	3	.240	6.1	41	61
ORF2004	4	.260	6.6	51	76
ORF2005	5	.287	7.3	60	89
ORF2007	7	.311	7.9	81	120
ORF2009	9	.409	10.4	135	201
ORF2012	12	.421	10.7	168	250
ORF2018	18	.508	12.9	198	295
ORF2025	25	.591	15.0	243	361
18 AWG (19/30) 1.00 mm²					
ORF1802	2	.244	6.2	42	63
ORF1803	3	.260	6.6	44	66
ORF1804	4	.283	7.2	54	81
ORF1805	5	.303	7.7	64	95
ORF1807	7	.335	8.5	84	125
ORF1809	9	.441	11.2	118	176
ORF1812	12	.457	11.6	142	211
ORF1818	18	.547	13.9	207	309
ORF1825	25	.629	16.0	277	413
ORF1834	34	.752	19.1	494	735
ORF1841	41	.811	20.6	558	830
ORF1850	50	.906	23.0	704	1038
16 AWG (30/30) 1.50 mm²					
ORF1602	2	.272	6.9	57	85
ORF1603	3	.287	7.3	61	91
ORF1604	4	.311	7.9	75	112
ORF1605	5	.346	8.8	91	136
ORF1607	7	.378	9.6	120	179
ORF1609	9	.512	13.0	174	260
ORF1612	12	.528	13.4	210	313
ORF1618	18	.618	15.6	298	414
ORF1625	25	.728	18.5	416	620

Part No.	Number of cond.	Nominal inches	OD mm	Weight lbs/mft	Approx. kg/km
14 AWG (50/30) 2.50 mm²					
ORF1402	2	.323	8.2	87	130
ORF1403	3	.343	8.7	93	138
ORF1404	4	.398	10.1	122	182
ORF1405	5	.429	10.9	145	216
ORF1407	7	.469	11.9	192	286
ORF1409	9	.614	15.6	318	473
12 AWG (56/30) 4.00 mm²					
ORF1203	3	.441	11.2	156	232
ORF1204	4	.496	12.6	198	295
ORF1205	5	.547	13.9	238	354
10 AWG (84/28) 6.00 mm²					
ORF1003	3	.512	13.0	222	330
ORF1004	4	.555	14.1	267	398
ORF1005	5	.626	15.9	321	479
8 AWG (72/26) 10.00 mm²					
ORF0804	4	.693	17.6	435	648
ORF0805	5	.780	19.8	525	782
6 AWG (115/26) 16.00 mm²					
ORF0604	4	.945	24.0	698	1040
ORF0605	5	1.039	26.4	842	1254
4 AWG (180/26) 25.00 mm²					
ORF0404	4	1.098	27.9	1007	1501
ORF0405	5	1.213	30.8	1244	1853
2 AWG (270/26) 35.00 mm²					
ORF0204	4	1.280	32.5	1422	2119
ORF0205	6	1.437	36.5	1749	2606

OIL RESISTANT FLEXIBLE SHIELDED CONTROL CABLE



ORF-CY CABLE

90°C 600 VOLT

APPLICATIONS:

Power supply, machine tools, control panel connections, CNC machining centers. Suitable for use in dry, damp and wet applications. The 85% tinned copper shield allows for EMI suppression. Consult factory for cable tray applications. Cable also available with polyurethane jacket.



Minimum Bending Radius

10 x cable diameter



Insulation Resistance

20 GΩx cm



Rated Temperature

Flexible use — -10°C to +90°C
Stationary use — -40°C to +90°C



Conductor Stranding

Fine wire per VDE 0295



Rated Voltage

600 volt



Approvals

UL AWM, CSA AWM
II A/B, FT1



Test Voltage

3000 volt



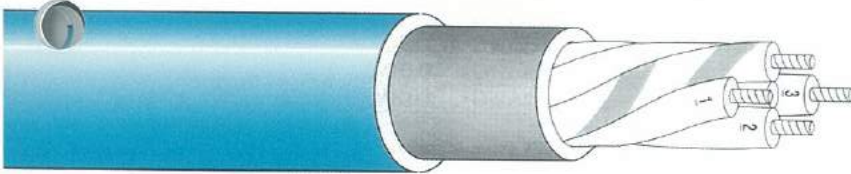
Color Code

Black w/white numbers plus
green/yellow with gray oil
resistant PVC jacket (RAL 7001)

Part No.	Number of cond.	Nominal inches	OD mm	Weight lbs/mft	Approx. kg/km
20 AWG (12/30) 0.50 mm²					
ORF2003CY	3	.315	8.0	82	122
ORF2007CY	7	.378	9.6	117	175
ORF2012CY	12	.496	12.6	195	290
ORF2025CY	25	.681	17.3	296	441
18 AWG (19/30) 1.00 mm²					
ORF1803CY	3	.331	8.4	82	122
ORF1804CY	4	.362	8.4	105	157
ORF1805CY	5	.398	10.1	123	183
ORF1807CY	7	.421	10.7	139	207
ORF1812CY	12	.551	14.0	230	342
ORF1825CY	25	.756	19.2	435	648
16 AWG (30/30) 1.50 mm²					
ORF1603CY	3	.366	9.3	111	166
ORF1604CY	4	.398	10.1	128	191
ORF1605CY	5	.433	11.0	149	222
ORF1607CY	7	.465	11.8	181	270
ORF1612CY	12	.622	15.8	311	464
ORF1618CY	18	.740	18.8	456	679
ORF1625CY	25	.878	22.3	639	952

Part No.	Number of cond.	Nominal inches	OD mm	Weight lbs/mft	Approx. kg/km
14 AWG (50/30) 2.50 mm²					
ORF1403CY	3	.429	10.9	148	221
ORF1404CY	4	.469	11.9	181	269
ORF1405CY	5	.516	13.1	218	325
ORF1407CY	7	.563	14.3	283	421
12 AWG (56/30) 4.00 mm²					
ORF1203CY	3	.531	13.5	226	337
ORF1204CY	4	.606	15.4	310	462
10 AWG (84/28) 6.00 mm²					
ORF1003CY	3	.614	15.6	311	463
ORF1004CY	4	.665	16.9	385	574
8 AWG (72/26) 10.00 mm²					
ORF0804CY	4	.819	20.8	569	848
6 AWG (115/26) 16.00 mm²					
ORF0604CY	4	1.063	27.0	1117	1660
4 AWG (180/26) 25.00 mm²					
ORF0404CY	4	1.232	31.3	1266	1886

OIL RESISTANT CONTINUAL FLEX CONTROL CABLE



ORCF CABLE









90°C 600 VOLT

APPLICATIONS:

For applications where there is continuous flexing. Designed for use on pick and place systems, automated handling equipment, machine tools, conveyor systems and CNC type equipment. PVC jacket passes VDE 0472 section 803 oil test.

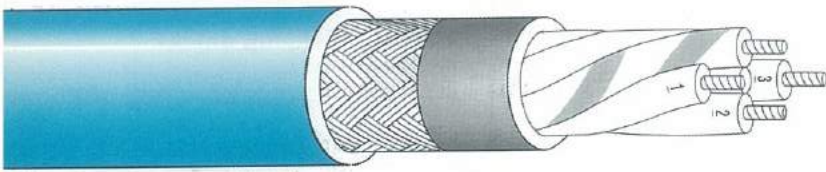
NEUFLEX ORCF Cables are rated for 12 million cycles..

Part No.	Number of cond.	Nominal inches	OD mm	Weight lbs/mft	Approx. kg/km
20 AWG (74/38) 0.50 mm²					
ORCF2003	3	.256	6.5	43	64
ORCF2004	4	.276	7.0	49	73
ORCF2005	5	.303	7.7	54	80
ORCF2007	7	.362	9.2	75	112
ORCF2012	12	.449	11.4	124	185
ORCF2018	18	.539	13.7	183	273
ORCF2025	25	.673	17.1	265	395
ORCF2034	34	.732	18.6	338	504
18 AWG (114/38) .75 mm²					
ORCF1803	3	.272	6.9	46	68
ORCF1804	4	.295	7.5	60	89
ORCF1805	5	.323	8.2	74	110
ORCF1807	7	.413	10.5	102	152
ORCF1812	12	.524	13.3	158	236
ORCF1815	15	.531	13.5	202	301
ORCF1818	18	.587	14.9	234	348
ORCF1825	25	.420	18.3	336	501
ORCF1834	34	.799	20.3	434	646
16 AWG (190/38) 1.50 mm²					
ORCF1603	3	.311	7.9	79	118
ORCF1604	4	.346	8.8	99	148
ORCF1605	5	.374	9.5	124	185
ORCF1607	7	.457	11.6	138	205
ORCF1612	12	.567	14.4	227	338
ORCF1618	18	.657	16.7	323	481
ORCF1625	25	.843	21.4	479	713
ORCF1634	34	.921	23.4	622	927
ORCF1650	50	1.075	27.3	879	1309
ORCF1660	60	1.189	30.2	1075	1602

-  **Minimum Bending Radius**
8 x cable diameter
-  **Insulation Resistance**
20 GΩ x cm
-  **Rated Temperature**
Flexible use — -10°C to +90°C
Stationary use — -40°C to +90°C
-  **Rated Voltage**
600 volt
-  **Conductor Stranding**
Fine wire per VDE 0295
-  **Test Voltage**
3000 volt
-  **Approvals**
UL style 2587 for PVC jacket (90°C), CSA AWM II A/B FT1, conforms to CE directives
-  **Color Code**
Red w/black numbers plus green/ yellow with black oil resistant PVC jacket

Part No.	Number of cond.	Nominal inches	OD mm	Weight lbs/mft	Approx. kg/km
14 AWG (320/38) 2.50 mm²					
ORCF1404	4	.429	10.9	148	220
ORCF1407	7	.579	14.7	227	338
12 AWG (512/38) 4.00 mm²					
ORCF1204	4	.528	13.4	208	310
ORCF1207	7	.579	14.7	335	499
10 AWG (343/34) 6.00 mm²					
ORCF1004	4	.587	14.9	275	410
8 AWG (320/32) 10.00 mm²					
ORCF0804	4	.827	21.0	481	716
6 AWG (512/32) 16.00 mm²					
ORCF0604	4	.996	25.3	708	1055
4 AWG (800/32) 25.00 mm²					
ORCF0404	4	1.138	26.9	1004	1496
2 AWG (1120/52) 35.00 mm²					
ORCF0204	4	1.319	33.5	1239	1846

OIL RESISTANT CONTINUAL FLEX SHIELDED CONTROL CABLE



ORCF-CY CABLE

90°C 600 VOLT

APPLICATIONS:

For applications where there is continuous flexing. Designed for use on pick and place systems, automated handling equipment, machine tools, conveyor systems and CNC type equipment. PVC jacket passes VDE 0472 section 803 oil test. The 85% tinned copper shield allows for EMI suppression.

NEUFLEX ORCF Cables are rated for 12 million cycles..

Part No.	Number of cond.	Nominal inches	OD mm	Weight lbs/mft	Approx. kg/km
20 AWG (74/38) 0.50 mm²					
ORCF2003CY	3	.354	9.0	82	122
ORCF2004CY	4	.370	9.4	97	145
ORCF2005CY	5	.413	10.5	108	161
ORCF2007CY	7	.469	11.9	137	204
ORCF2012CY	12	.559	14.2	214	319
ORCF2018CY	18	.657	16.7	293	436
ORCF2025CY	25	.799	20.3	421	627
ORCF2034CY	34	.874	22.2	517	769
18 AWG (114/38) .75 mm²					
ORCF1803CY	3	.374	9.5	91	136
ORCF1804CY	4	.413	10.5	112	167
ORCF1805CY	5	.441	11.2	118	195
ORCF1807CY	7	.524	13.3	185	275
ORCF1812CY	12	.626	15.9	271	404
ORCF1818CY	18	.705	17.9	357	532
ORCF1825CY	25	.874	22.2	52.3	780
ORCF1834CY	34	.965	24.5	660	984
16 AWG (190/38) 1.50 mm²					
ORCF1603CY	3	.406	10.3	115	171
ORCF1604CY	4	.454	11.5	147	219
ORCF1605CY	5	.480	12.2	163	243
ORCF1607CY	7	.594	15.1	247	368
ORCF1618CY	18	.791	20.1	493	734
ORCF1625CY	25	.945	24.0	686	1023
ORCF1634CY	34	1.063	27.0	768	1145
ORCF1650CY	50	1.264	32.1	1264	1883



Minimum Bending Radius

10 x cable diameter



Insulation Resistance

20 GΩ x cm



Rated Temperature

Flexible use — -10°C to +90°C
Stationary use — -40°C to +90°C



Rated Voltage

600 volt



Conductor Stranding

Fine wire per VDE 0295



Approvals

UL style 2587 for PVC jacket (90°C), CSA AWM II A/B FT1, conforms to directives based on VDE specification



Test Voltage

3000 volt



Color Code

Red w/black numbers plus green/yellow with black oil resistant PVC jacket.

Part No.	Number of cond.	Nominal inches	OD mm	Weight lbs/mft	Approx. kg/km
14 AWG (320/38) 2.50 mm²					
ORCF1404CY	4	.535	13.6	181	269
ORCF1407CY	7	.673	17.1	347	517
ORCF1418CY	18	.961	24.4	761	1134
12 AWG (512/38) 4.00 mm²					
ORCF1204CY	4	.646	16.4	245	365
ORCF1207CY	7	.811	20.6	585	769
10 AWG (343/34) 6.00 mm²					
ORCF1004CY	4	.705	17.9	339	505
ORCF1007CY	7	.933	23.7	673	1003
8 AWG (320/32) 10.00 mm²					
ORCF0804CY	4	1.000	25.4	700	1043

HARMONIZED EUROPEAN NEOPRENE JACKETED FLEXIBLE CORDAGE



H07RN-F

<HAR>

APPLICATIONS:

H07RN-F — Heavy duty rubber jacketed cable for use on heavy appliances, tools and agriculture machinery subject to high level of stress in dry and damp interiors as well as in the open air and in industrial water.



Minimum Bending Radius

5 x cable diameter



Insulation Resistance

1 GΩx cm



Rated Temperature

Flexible use — -25°C to +60°C



Conductor Stranding

Fine wire per VDE 0295



Rated Voltage

H07RN-F 450/750 volt



Approvals

HAR
(Conforms to CE Directives)



Test Voltage

H07RN-F 2500 volt



Color Code

To VDE 0293

Part No.	Number of cond.	Nominal inches	OD mm	Weight lbs/mft	Approx. kg/km
17 AWG (32/32) 1.0 mm²					
7RNF1703	3	.338-.452	8.8-11.6	88	130
16 AWG (30/30) 1.5 mm²					
7RNF1603	3	.378-.492	9.6-12.5	111	165
7RNF1604	4	.413-.531	10.5-13.5	135	200
7RNF1605	5	.452-.690	11.5-15.0	162	240
14 AWG (50/30) 2.5 mm²					
7RNF1403	3	.452-.571	11.6-14.5	169	235
7RNF1404	4	.492-.610	12.5-15.5	196	290
7RNF1405	5	.531-.669	13.6-17.0	233	347
12 AWG (56/26) 4.0 mm²					
7RNF1203	3	.512-.613	13.0-16.0	216	320
7RNF1204	4	.571-.708	14.8-18.0	267	396
7RNF1205	5	.628-.727	16.0-19.5	328	486
10 AWG (84/28) 6.0 mm²					
7RNF1003	3	.671-.787	14.6-20.0	335	495
7RNF1004	4	.649-.866	16.5-22.0	412	610
7RNF1005	5	.708-.964	18.0-24.5	514	760

Part No.	Number of cond.	Nominal inches	OD mm	Weight lbs/mft	Approx. kg/km
8 AWG (80/26) 10 mm²					
7RNF0803	3	.787-1.004	20.0-25.5	595	880
7RNF0804	4	.846-1.102	21.5-28.0	712	1060
7RNF0805	5	.944-1.200	24.0-30.5	880	1300
6 AWG (126/26) 16 mm²					
7RNF0603	3	.866-1.161	22.5-29.5	737	1090
7RNF0604	4	.964-1.259	24.6-32.0	910	1345
7RNF0605	5	1.063-1.397	27.0-35.5	1137	1680
4 AWG (196/26) 25 mm²					
7RNF0404	4	1.161-1.476	29.6-37.5	1350	1995
7RNF0405	5	1.279-1.633	32.5-41.5	1672	2470
2 AWG (296/26) 35 mm²					
7RNF0204	4	1.299-1.663	33.0-42.0	1790	2645
1 AWG (396/126) 50 mm²					
7RNF0104	4	1.496-1.909	38.0-48.6	2480	3635
2/0 AWG (360/24) 70 mm²					
7RNF2/004	4	1.692-2.145	43.0-54.5	3269	4830
3/0 AWG (475/24) 95 mm²					
7RNF3/004	4	1.928-2.381	49.0-60.5	4278	6320

HARMONIZED EUROPEAN FLEXIBLE PVC CABLE



H05VV-F

<HAR>

APPLICATIONS:

H05VV-F for use in electrical and electronic equipment for export to European countries and for replacement on European made equipment such as appliances and office equipment.

STANDARDS:

HD 21.1 S2, HD 21.1, HD 21.3 S2, HD 308, 361, 383, 385, 402, 405.1 VDE 0100, 0281, 0293, 0295 class 5
ICE 227.1, 227.2, 227.5, 228, 0304, 332.1, 54
BS6500, BS6360



Minimum Bending Radius

5 x cable diameter



Insulation Resistance

20 GΩx cm



Rated Temperature

Flexible use — -30°C to +70°C



Conductor Stranding

Fine wire per VDE 0295



Rated Voltage

300/500 volt



Approvals

HAR
(Conforms to CE Directives)



Test Voltage

3000 volt



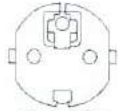
Color Code

To VDE 0293

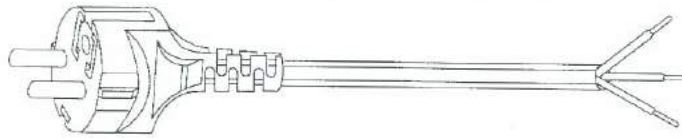
Part No.	Number of cond.	Nominal inches	OD mm	Weight lbs/mft	Approx. kg/km
18 AWG (24/32) 0.75 mm²					
5VVF1802	2	.255	6.4	35	52
5VVF1803	3	.268	6.8	42	62
5VVF1804	4	.291	7.4	50	75
5VVF1805	5	.328	8.5	65	96
17 AWG (32/30) 1.00 mm²					
5VVF1702	2	.268	6.8	42	61
5VVF1703	3	.283	7.2	50	74
5VVF1704	4	.307	7.8	62	92
5VVF1705	5	.346	8.8	76	113

Part No.	Number of cond.	Nominal inches	OD mm	Weight lbs/mft	Approx. kg/km
16 AWG (30/30) 1.50 mm²					
5VVF1602	2	.303	7.7	57	84
5VVF1603	3	.335	8.5	71	106
5VVF1604	4	.374	9.5	90	133
5VVF1605	5	.417	10.6	112	167
14 AWG (50/30) 2.50 mm²					
5VVF1402	2	.366	9.3	85	126
5VVF1403	3	.394	10.0	106	158
5VVF1404	4	.433	11.0	132	196
5VVF1405	5	.484	12.3	163	242

INTERNATIONAL POWER SUPPLY CORDS



Molded PVC
Grounding Plug
CEE 7/7 UC-813

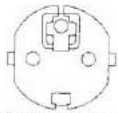


Remove Outer
Jacket 50mm
Strip and Tin 12mm

Type H05VV-F PVC Jacketed, 70°C

PART NUMBER	RATING	SIZE & COND.	COLOR CODE	LENGTH Ft/Mtrs.	NOM. O.D. mm	STD. PKG.	PKG. WT. lbs.
8100-25M-BB	10A-250V	1.0mm ² ×3C	CEE	8'/2.5	7.1	50	26
8100-25M-GG	10A-250V	1.0mm ² ×3C	CEE	8'/2.5	7.1	50	26

Standard bulk packaged



Molded PVC Right-Angle
Grounding Plug
CEE 7/7 UC-814

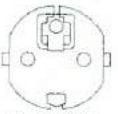


Remove Outer
Jacket 50mm
Strip and Tin 12mm

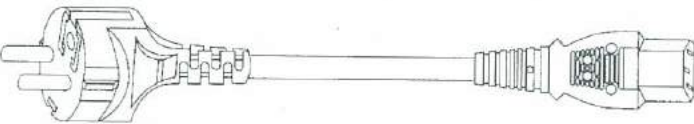
Type H05VV-F PVC Jacketed, 70°C

PART NUMBER	RATING	SIZE & COND.	COLOR CODE	LENGTH Ft/Mtrs.	NOM. O.D. mm	STD. PKG.	PKG. WT. lbs.
8110-25M-BB	10A-250V	1.0mm ² ×3C	CEE	8'/2.5	7.1	50	28

Standard bulk packaged



Molded PVC
Grounding Plug
CEE 7/7 UC-813

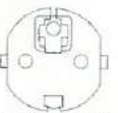


Molded PVC
Receptacle
IEC 320/C13 UC-051

Type H05VV-F PVC Jacketed, 70°C

PART NUMBER	RATING	SIZE & COND.	COLOR CODE	LENGTH Ft/Mtrs.	NOM. O.D. mm	STD. PKG.	PKG. WT. lbs.
8150-25M-BB	10A-250V	1.0mm ² ×3C	CEE	8'/2.5	7.1	50	31
8150-25M-GG	10A-250V	1.0mm ² ×3C	CEE	8'/2.5	7.1	50	31

Standard tied loop hank



Molded PVC Right-Angle
Grounding Plug
CEE 7/7 UC-814



Molded PVC
Receptacle
IEC 320/C13 UC-051

Type H05VV-F PVC Jacketed, 70°C

PART NUMBER	RATING	SIZE & COND.	COLOR CODE	LENGTH Ft/Mtrs.	NOM. O.D. mm	STD. PKG.	PKG. WT. lbs.
8192-25M-BB	10A-250V	1.0mm ² ×3C	CEE	8'/2.5	7.1	50	32
8192-25M-GG	10A-250V	1.0mm ² ×3C	CEE	8'/2.5	7.1	50	32

Standard tied loop hank



Molded PVC Plug
CEE 7/16 UC-811



Remove Outer
Jacket 50mm
Strip and Twist 12mm

Type H03VVH2-F PVC Jacketed, 70°C

PART NUMBER	RATING	SIZE & COND.	COLOR CODE	LENGTH Ft/Mtrs.	NOM. O.D. mm	STD. PKG.	PKG. WT. lbs.
8120-25M-BB	2.5A-250V	.75mm ² ×2C	CEE	8'/2.5	3.4/5.6	100	25

Standard bulk packaged

NEUFLEX/OLFLEX CROSS REFERENCE INDEX

OLFLEX	NEUFLEX
601003	ORF1003
601004	ORF1004
601005	ORF1005
601203	ORF1203
601204	ORF1204
601205	ORF1205
601402	ORF1402
601403	ORF1403
601404	ORF1404
601405	ORF1405
601407	ORF1407
601409	ORF1409
601412	ORF1412
601418	ORF1418
601425	ORF1425
601602	ORF1602
601603	ORF1603
601604	ORF1904
601605	ORF1605
601607	ORF1607
601609	ORF1609
601612	ORF1612
601618	ORF1618
601625	ORF1625
601802	ORF1802
601803	ORF1803
601804	ORF1804
601805	ORF1805
601807	ORF1807
601809	ORF1809
601812	ORF1812
601818	ORF1818
601825	ORF1825
602002	ORF2002
602003	ORF2003
602004	ORF2004
602005	ORF2005
602007	ORF2007
602009	ORF2009
602012	ORF2012
602018	ORF2018
602025	ORF2025

OLFLEX	NEUFLEX
891004	ORCF1004
891007	ORCF1007
891204	ORCF1204
891207	ORCF1207
891404	ORCF1404
891407	ORCF1407
891603	ORCF1603
891604	ORCF1604
891605	ORCF1605
891607	ORCF1607
891612	ORCF1612
891618	ORCF1618
891625	ORCF1625
891634	ORCF1634
891803	ORCF1803
891804	ORCF1804
891805	ORCF1805
891807	ORCF1807
891812	ORCF1812
891815	ORCF1815
891818	ORCF1818
891825	ORCF1825
891834	ORCF1834
892003	ORCF2003
892004	ORCF2004
892005	ORCF2005
892007	ORCF2007
892012	ORCF2012
892018	ORCF2018
892025	ORCF2025
892034	ORCF2034

NEUFLEX/OLFLEX CROSS REFERENCE INDEX

OLFLEX	NEUFLEX
601003CY	ORF1003CY
601004CY	ORF1004CY
601005CY	ORF1005CY
601203CY	ORF1203CY
601204CY	ORF1204CY
601205CY	ORF1205CY
601403CY	ORF1403CY
601404CY	ORF1404CY
601405CY	ORF1405CY
601407CY	ORF1407CY
601409CY	ORF1409CY
601412CY	ORF1412CY
601418CY	ORF1418CY
601425CY	ORF1425CY
601602CY	ORF1602CY
601603CY	ORF1603CY
601604CY	ORF1604CY
601605CY	ORF1605CY
601607CY	ORF1607CY
601609CY	ORF1609CY
601612CY	ORF1612CY
601618CY	ORF1618CY
601625CY	ORF1625CY
601803CY	ORF1803CY
601804CY	ORF1804CY
601805CY	ORF1805CY
601807CY	ORF1807CY
601809CY	ORF1809CY
601812CY	ORF1812CY
601818CY	ORF1818CY
601825CY	ORF1825CY
602003CY	ORF2003CY
602004CY	ORF2004CY
602005CY	ORF2005CY
602007CY	ORF2007CY
602009CY	ORF2009CY
602012CY	ORF2012CY
602018CY	ORF2018CY
602025CY	ORF2025CY

OLFLEX	NEUFLEX
891004CY	ORCF1004CY
891007CY	ORCF1007CY
891204CY	ORCF1204CY
891207CY	ORCF1207CY
891404CY	ORCF1404CY
891407CY	ORCF1407CY
891603CY	ORCF1603CY
891604CY	ORCF1604CY
891605CY	ORCF1605CY
891607CY	ORCF1607CY
891612CY	ORCF1612CY
891618CY	ORCF1618CY
891625CY	ORCF1625CY
891803CY	ORCF1803CY
891804CY	ORCF1804CY
891805CY	ORCF1805CY
891807CY	ORCF1807CY
891812CY	ORCF1812CY
891818CY	ORCF1818CY
891825CY	ORCF1825CY
892003CY	ORCF2003CY
892004CY	ORCF2004CY
892005CY	ORCF2005CY
892007CY	ORCF2007CY
892010CY	ORCF2010CY
892012CY	ORCF2012CY
892018CY	ORCF2018CY
892025CY	ORCF2025CY

European Current Ratings For Flexible Cables

The values shown in the following tables are guidelines, taken from VDE 0298 part 4 and VDE 0100 part 430 and 523. General recommendations can be found in VDE 0298 part 2 and 4.

Current Rating For Up To 5 Conductors (30°C Ambient)

Power rating values of insulated cables at 30°C ambient temperature. For more than 5 conductors, which carry load simultaneously, see the table below.

Nominal Cross Section (mm ²) (AWG)*	Group 1		Group 2		Group 3		
	Max. Load (A)	Fuse (A)	Max. Load (A)	Fuse (A)	Max. Load (A)	Fuse (A)	
0.05	30	0.7	—	1.0	—	1.0	—
0.14	26	1.4	—	2.0	—	2.8	—
0.25	24	2.8	—	4.5	—	5.0	—
0.34	22	4.0	—	6.0	—	7.5	—
0.50	20	6.0	—	7.5	—	10.0	—
0.75	18	9.0	—	12.0	6.0	15.0	10.0
1.00	17	11.0	6.0	15.0	10.0	19.0	10.0
1.50	16	16.5	16.0	16.5	16.0	21.0	20.0
2.50	14	21.0	20.0	22.0	20.0	29.0	25.0
4	12	28.0	25.0	30.0	25.0	39.0	35.0
6	10	36.0	35.0	38.0	35.0	51.0	50.0
10	8	49.0	40.0	53.0	50.0	70.0	63.0
16	6	65.0	63.0	72.0	63.0	94.0	80.0
25	4	85.0	80.0	94.0	80.0	125.0	100.0
35	2	105.0	100.0	118.0	100.0	154.0	125.0
50	1	126.0	125.0	142.0	125.0	198.0	160.0
70	2/0	160.0	160.0	181.0	160.0	245.0	200.0
95	3/0	193.0	160.0	219.0	200.0	292.0	250.0
120	4/0	223.0	200.0	253.0	250.0	344.0	315.0
150	300 MCM	—	—	335.0	250.0	391.0	315.0
185	350 MCM	—	—	382.0	315.0	448.0	400.0
240	500 MCM	—	—	453.0	400.0	528.0	400.0
300	600 MCM	—	—	504.0	400.0	608.0	500.0
400	750 MCM	—	—	—	—	726.0	630.0

Group 1: One or more single conductor cables and wires installed in conduit, e.g. PVC insulated single conductors HO3V..HO5V.. and HO7V.. per VDE 0281

Group 2: Multi conductor cables, e.g. PVC jacketed cables, flexible cables, metal clad cables in open or ventilated plenums.

Group 3: Single conductor cables installed in open air with a min. spacing of one cable diameter. Typical applications include single conductor wiring of switch - and rail distribution systems and control cabinets.

Current Rating Of Insulated Cables (30°C to 55°C)

Values shown in the tables below are % of normal values. (Continuous load.)

Ambient temperature (°C)	Rubber ins. (60°C) %	Plastic ins. (70°C) %
over 30 to 35	91	92
over 35 to 40	82	87
over 40 to 45	71	79
over 45 to 50	58	71
over 50 to 55	41	61

Current Rating Of Insulated High Temperature Cables (Above 55° C)

Values shown in the tables below are % of normal values. (Continuous load.)

Amb. temp. °C for cables rated at:		Derating factor (%)
100°C	180°C	
over 55 to 65	over 55 to 145	100
over 65 to 70	over 145 to 150	92
over 70 to 75	over 150 to 155	85
over 75 to 80	over 155 to 160	75
over 80 to 85	over 160 to 165	65
over 85 to 90	over 165 to 170	53
over 90 to 95	over 170 to 175	38

Current Rating For Multi Conductor Cables & Derating Factor 6 or more conductors carrying current simultaneously

Cross Section (mm ²) (AWG)*	Current* (A)	
0.08	28	3.8
0.14	26	5.3
0.25	24	7.5
0.34	22	9.0
0.50	20	12.0

Cross Section (mm ²) (AWG)*	Current* (A)	
0.75	18	15.0
1.00	17	17.0
1.50	16	23.0
2.50	14	33.0

*Max. current at 20°C ambient temperature

*Current ratings are based on mm². The equivalent AWG values are for reference only.

No. of cond.	Derating (%)
2	75
3	65
4	58
5	51
6	48
7	45
8	42
9	40
10	39
12	36

No. of cond.	Derating (%)
14	34
16	32
18	30
20	29
24	27
28	25
40	22
60	18
80	16
100	15

COLOR CODES

Per DIN 47100

Without color repetition

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

FOR PAIRED CABLES

Per DIN 47100

No. of pairs	Color cond. a	Color cond. b
1,23,45	White	Brown
2,24,46	Green	Yellow
3,25,47	Grey	Pink
4,25,48	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
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

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

FOR MULTICONDUCTOR FLEXIBLE CABLE

Per VDE 0293

No. of Cond.	Cables <u>with</u> green-yellow ground conductor (-J)
2	-
3	Green-yellow/brown/blue
4	Green-yellow/black/blue/brown
5	Green-yellow/black/blue/brown/black
6 and up	Green-yellow/others black with white numbers

No. of Cond.	Cables <u>without</u> green-yellow ground conductors (-O)
2	Brown/blue
3	Black/blue/brown
4	Black/blue/brown/black
5	Black/blue/brown/black/black
6 and up	Black with white numbers

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