



Photo: HELUKABEL®

Single Conductors

Single Conductors

Single conductors are necessary for efficient use in switch cabinets wiring or cable assemblies. If PVC, Silicone, Fluorinated polymeric or Rubber insulated, with plain or tinned copper conductors, HELUKABEL® has an extended stock with nearly all popular colour combinations.

We produce special colour combinations upon request. For all two or three coloured combinations please take our program for vehicle cables (pages K 1 – K 4).

D

The dispatching is effected in cardboard boxes, coils, non-returnable reels or in cardboard barrels. Several sizes of reels or barrels are available.

In addition, we also produce additional accessories as terminal core sleeves, cable lugs, nylon binder, code rings or tools.

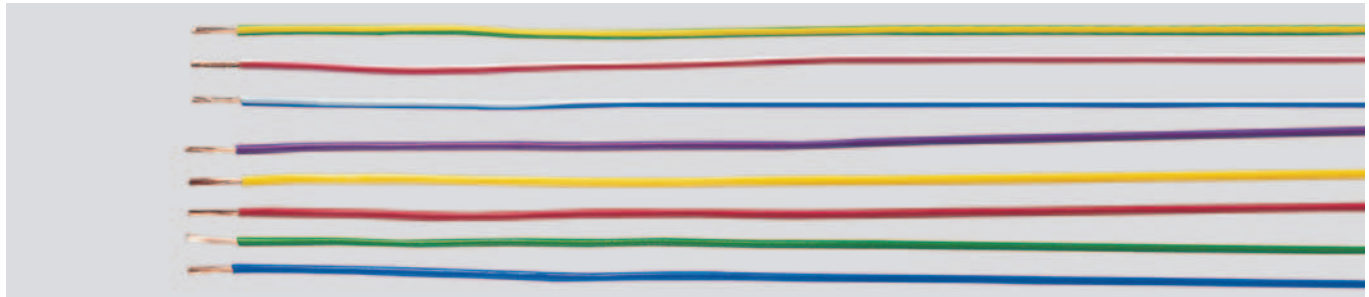
Request our catalogue for cable accessories (see appendix) or for further advice please call us direct on (0 7150) 9 209-111.

For further single cores please see the following pages:

- for PUR, see page G 34.
- for rubber, see pages G 33, O 15.
- halogen-free, see pages G 33 – G 34, E 8, E 10, E 20 – E 21, E 29 – E 31.
- to overseas standard, see pages F 1 – F 7, F 13.
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Technical data

- PVC single cores to DIN VDE 0812 LiY (tinned)
- **Temperature range**
 - flexing - 5°C to +70°C
 - fixed installation -30°C to +80°C
- **Operating peak voltage**
 - LiY (tinned) 0,14 mm² = 500 V
 - 0,25 - 1,50 mm² = 900 V
- **Test voltage**
 - LiY (tinned) 0,14 mm² = 1200 V
 - 0,25 - 1,50 mm² = 2500 V
- **Insulation resistance**
min. 10 MOhm x km
- **Minimum bending radius**
12,5 x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Tinned copper fine wire stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5, HD 383 and IEC 60228 cl. 5
- PVC core insulation, compound Y13 to DIN VDE 0812
- Core colours see below
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/EN 50265-2-1/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Application

LiY to DIN VDE 0812, flexible hook-up wire of PVC. PVC insulated flexible hook-up wires are used for the connection for low voltage applications, communication apparatus, electronic assemblies and equipment, racks, switchboards etc. correspondingly of VDE 0800 part 1 for the temperature range up to +70°C.

Those stranded hook-up wires are not permitted to install for heavy current application outside of the equipment.



CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Type Cross-sec. mm ²	max-Ø mm	Cop. weight kg / km	black	gn-ye	blue	brown	red	white	grey	violet	yellow	pink	green	trans.	dk-blue	orange	o.col.	twin tone**
approx. RAL			9005	6018/ 1021	5015	8003	3000	1013	7000	4005	1021	3015	6018	-	5010	2003	-	-



Coil in cardboard (100 m)

Packing LiY/mm ²	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
0,14	1,2	1,4	29001	29002	29003	29004	29005	29006	29007	29008	29009	29010	29011	29012	29013	29014	29015	29016
0,25	1,4	2,4	29017	29018	29019	29020	29021	29022	29023	29024	29025	29026	29027	29028	29029	29030	29031	29032
0,5	1,95	4,8	29033	29034	29035	29036	29037	29038	29039	29040	29041	29042	29043	29044	29045	29046	29047	29048
0,75	2,15	7,2	29049	29050	29051	29052	29053	29054	29055	29056	29057	29058	29059	29060	29061	29062	29063	29064
1	2,25	9,6	29065	29066	29067	29068	29069	29070	29071	29072	29073	29074	29075	29076	29077	29078	29079	29080
1,5	2,75	14,4	28985	28986	28987	28988	28989	28990	28991	28992	28993	28994	28995	28996	28997	28998	28999	29000



Spool (with different capacity)

Packing LiY/mm ²	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
0,14	1,2	1,4	26405	26406	26407	26408	26409	26410	26411	26412	26413	26414	26415	26416	26417	26418	26419	26420
0,25	1,4	2,4	26421	26422	26423	26424	26425	26426	26427	26428	26429	26430	26431	26432	26433	26434	26435	26436
0,5	1,95	4,8	26437	26438	26439	26440	26441	26442	26443	26444	26445	26446	26447	26448	26449	26450	26451	26452
0,75	2,15	7,2	26453	26454	26455	26456	26457	26458	26459	26460	26461	26462	26463	26464	26465	26466	26467	26468
1	2,25	9,6	26469	26470	26471	26472	26473	26474	26475	26476	26477	26478	26479	26480	26481	26482	26483	26484
1,5	2,75	14,4	26485	26486	26487	26488	26489	26490	26491	26492	26493	26494	26495	26496	26497	26498	26499	26500

** Note Continuation ▶
AWG equivalent values – see page T 15.
Heat resistant versions see types HELUTHERM®. Colours available on request. PVC cables will be changed to lead free PVC successively.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Type Cross- sec. mm ²	max- ∅ mm	Cop. weight kg/km	black	gn-ye	blue	brown	red	white	grey	violet	yellow	pink	green	trans.	dk-blue	orange	o.col.	twin tone
approx.			9005	6018/	5015	8003	3000	1013	7000	4005	1021	3015	6018	-	5010	2003	-	-
RAL				1021														



Barrel (with different capacity – see page D 8)

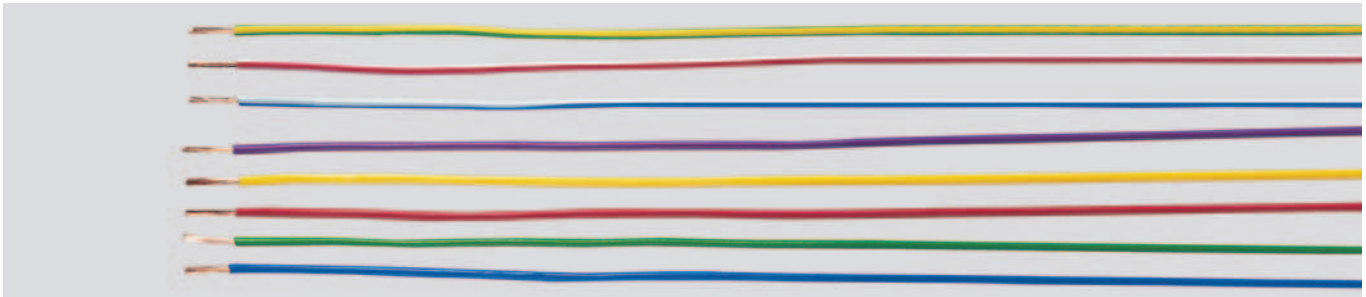
Packing																		
LiY/mm²																		
Part No.			26505	26506	26507	26508	26509	26510	26511	26512	26513	26514	26515	26516	26517	26518	26519	26520
0,25	1,4	2,4																
Part No.			26521	26522	26523	26524	26525	26526	26527	26528	26529	26530	26531	26532	26533	26534	26535	26536
0,5	1,95	4,8																
Part No.			26537	26538	26539	26540	26541	26542	26543	26544	26545	26546	26547	26548	26549	26550	26551	26552
0,75	2,15	7,2																
Part No.			26553	26554	26555	26556	26557	26558	26559	26560	26561	26562	26563	26564	26565	26566	26567	26568
1	2,25	9,6																
Part No.			26569	26570	26571	26572	26573	26574	26575	26576	26577	26578	26579	26580	26581	26582	26583	26584
1,5	2,75	14,4																

Note
AWG equivalent values – see page T 15.

Heat resistant versions see types HELUTHERM®. Colours available on request.

PVC cables will be changed to lead free PVC successively.

H05 V-K PVC-Single Cores, VDE approved fine wire stranded



Technical data

- PVC single cores to DIN VDE 0281-3
H05 V-K/H05 V-U to DIN VDE 0281 part 3, HD 21.3 S3 and IEC 60227-3
- **Temperature range**
flexing - 5°C to +70°C
fixed installation -30°C to +80°C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage**
H05 V-K 2000 V
- **Insulation resistance**
min. 10 MOhm x km
- **Minimum bending radius**
12,5 x cable \varnothing
- **Radiation resistance**
up to 80×10^6 cJ/kg (up to 80 Mrad)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

U = Solid conductor
R = Stranded conductor
K = Fine stranded conductor

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Cable structure

- Bare copper fine wire stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5, HD 383 and IEC 60228 cl. 5
- PVC core insulation, compound T11 to DIN VDE 00281 part 3, HD 21.3 S3 and IEC 60227-3
- Core colours see below
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/EN 50265-2-1/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Core Identification as per DIN VDE 0293

● connecting jumper wires with a nominal voltage U_0/U 300/500 V (H05)

The following colours are recommended: black, white, blue, grey, brown, red, orange, turquoise, violet and pink. Exceptions are the colours green and yellow; these are only permitted if the safety regulations allows. Green is permitted for the identification of luminous decorative chains. All two-coloured combinations of the above single colours are allowed.

Application

H05 V to DIN VDE 0281 part 3, HD 21.3 S3 and IEC 60227-3

connecting jumper wire of PVC.

These insulated wires are determined for the installation to the inside of apparatus as well as for the protective laying to the lightings, in dry rooms, in production facilities, switch and distributor boards, in tubes, under and surface mounting of plasters.

** Two-coloured combination is only permitted for (H)07 V.

Note AWG equivalent values – see page T 15.

Heat resistant versions see types HELUTHERM®. Colours available on request.

PVC cables will be changed to lead free PVC successively.

Type	max- \varnothing mm	Cop. weight kg/km	black	gn-ye	blue	brown	red	white	grey	violet	yellow	pink	green	trans.	dk-blue	orange	o.col.	twin tone**
approx. RAL			9005	6018/ 1021	5015	8003	3000	1013	7000	4005	1021	3015	6018	-	5010	2003	-	-



Coil in cardboard (100 m)

Packing

H05 V-K/mm²

Part No.	0,5	0,75	1	29081	29082	29083	29084	29085	29086	29087	29088	29089	29090	29091	29092	29093	29094	29095	29096
Part No.	2,5	7,2		29097	29098	29099	29100	29101	29102	29103	29104	29105	29106	29107	29108	29109	29110	29111	29112
Part No.	2,8	9,6		29113	29114	29115	29116	29117	29118	29119	29120	29121	29122	29123	29124	29125	29126	29127	29128



Spool (with different capacity)

Packing

H05 V-K/mm²

Part No.	0,5	0,75	1	26590	26591	26592	26593	26594	26595	26596	26597	26598	26599	26600	26601	26602	26603	26604	26605
Part No.	2,5	7,2		26606	26607	26608	26609	26610	26611	26612	26613	26614	26615	26616	26617	26618	26619	26620	26621
Part No.	2,8	9,6		26622	26623	26624	26625	26626	26627	26628	26629	26630	26631	26632	26633	26634	26635	26636	26637



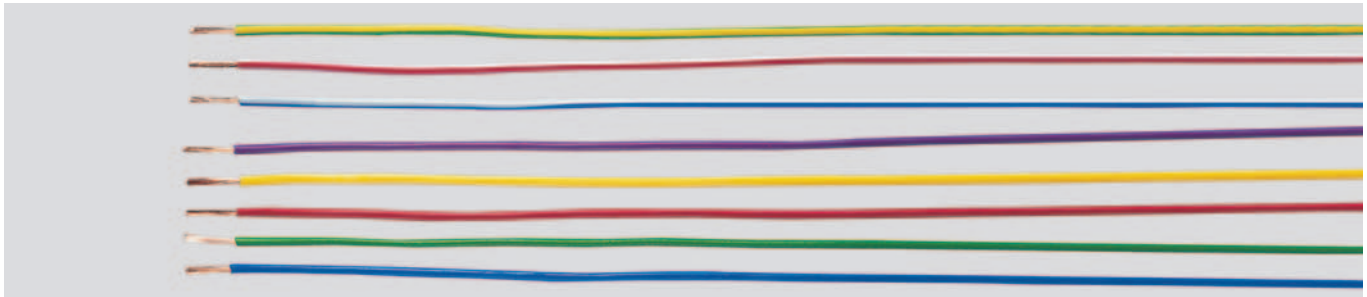
Barrel (with different capacity – see page D 8)

Packing

H05 V-K/mm²

Part No.	0,5	0,75	1	26640	26641	26642	26643	26644	26645	26646	26647	26648	26649	26650	26651	26652	26653	26654	26655
Part No.	2,5	7,2		26656	26657	26658	26659	26660	26661	26662	26663	26664	26665	26666	26667	26668	26669	26670	26671
Part No.	2,8	9,6		26672	26673	26674	26675	26676	26677	26678	26679	26680	26681	26682	26683	26684	26685	26686	26687

H07 V-K, (H)07 V-K PVC-Single Cores, VDE approved fine wire stranded



Technical data

- PVC single cores to DIN VDE 0281 part 3, HD 21.3 S3 and IEC 60227-3
 - **Temperature range**
 - flexing - 5°C to +70°C
 - fixed installation -30°C to +80°C
 - **Nominal voltage** U_0/U 450/750 V
 - **Test voltage** 2500 V
 - **Insulation resistance** min. 10 MΩm x km
 - **Minimum bending radius** 12,5 to 15 x cable Ø
 - **Radiation resistance** up to 80x10⁶ cJ/kg (up to 80 Mrad)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

U = Solid conductor
R = Stranded conductor
K = Fine stranded conductor

Cable structure

- Bare copper fine wire stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5, HD 383 and IEC 60228 cl. 5
- PVC core insulation, compound T11 to DIN VDE 0281 part 3, HD 21.3 S3 and IEC 60227-3
- Core colours see below
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/EN 50265-2-1/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Core Identification with nominal voltage U_0/U 450/750 V

The following colours are recommended (only single colour): black, white, blue, grey, brown, red, orange, turquoise, violet and pink. Two-coloured combinations are not allowed, with exceptions of green-yellow.

Application

- **H07 V** to DIN VDE 0281 part 3, HD 21.3 S3 and IEC 60227-3 connecting jumper wire of PVC
- These insulated wires are suitable for laying in tubes, under and surface mounting of plasters and also in closed installation conduits.
- These are not allowed to install for direct laying on cable trays, channels or tanks. These types are permitted for the inner wiring of equipment, distributor and switchboards and also for protective laying to the lightings with a nominal voltage up to 1000 V alternating current or up to 750 V direct current against earth.

- **Colour code Single core cables H07 see page T 54**

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Type	max- Ø mm	Cop. weight kg/km	black	gn-ye	blue	brown	red	white	grey	violet	yellow	pink	green	trans.	dk-blue	orange	o.col.	twin tone**
approx. RAL			9005	6018/ 1021	5015	8003	3000	1013	7000	4005	1021	3015	6018	-	5010	2003	-	-



Coil in cardboard (100 m)

Packing

H07 V-K/(H)07 V-K*/mm²

Part No.	29129	29130	29131	29132	29133	29134	29135	29136	29137	29138	29139	29140	29141	29142	29143	29144**		
1,5	3,4	14,4	29145	29146	29147	29148	29149	29150	29151	29152	29153	29154	29155	29156	29157	29158	29159	29160
2,5	4,1	24,0	29161	29162	29163	29164	29165	29166	29167	29168	29169	29170	29171	29172	29173	29174	29175	29176
4	4,8	38,0	29177	29178	29179	29180	29181	29182	29183	29184	29185	29186	29187	29188	29189	29190	29191	29192
6	5,3	58,0																



Spool (with different capacity)

Packing

H07 V-K/(H)07 V-K*/mm²

Part No.	26690	26691	26692	26693	26694	26695	26696	26697	26698	26699	26700	26701	26702	26703	26704	26705**		
1,5	3,4	14,4	26706	26707	26708	26709	26710	26711	26712	26713	26714	26715	26716	26717	26718	26719	26720	26721
2,5	4,1	24,0	26722	26723	26724	26725	26726	26727	26728	26729	26730	26731	26732	26733	26734	26735	26736	26737
4	4,8	38,0	26738	26739	26740	26741	26742	26743	26744	26745	26746	26747	26748	26749	26750	26751	26752	26753
6	5,3	58,0																

Continuation ►

Note

AWG equivalent values – see page T 15.

PVC cables will be changed to lead free PVC successively.

* Note: Colours yellow, green, transparent only in (H)07 V-K available.
** Two-coloured combination is only permitted for (H)07 V.

Heat resistant versions see types HELUTHERM®. Colours available on request.

H07 V-K, (H)07 V-K PVC-Single Cores, VDE approved fine wire stranded



CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Type Cross-sec. mm ²	max-∅ mm	Cop. weight kg / km	black	gn-ye	blue	brown	red	white	grey	violet	yellow	pink	green	trans.	dk-blue	orange	o.col.	twin tone**
approx. RAL			9005	6018/1021	5015	8003	3000	1013	7000	4005	1021	3015	6018	-	5010	2003	-	-



Barrel (with different capacity – see page D 8)

Packing H07 V-K/(H)07 V-K*/mm ²																		
Part. No.			26755	26756	26757	26758	26759	26760	26761	26762	26763	26764	26765	26766	26767	26768	26769	26770
1,5	3,4	14,4																
Part. No.			26771	26772	26773	26774	26775	26776	26777	26778	26779	26780	26781	26782	26783	26784	26785	26786
2,5	4,1	24,0																
Part. No.			26787	26788	26789	26790	26791	26792	26793	26794	26795	26796	26797	26798	26799	26800	26801	26802
4	4,8	38,0																
Part. No.			26803	26804	26805	26806	26807	26808	26809	26810	26811	26812	26813	26814	26815	26816	26817	26818
6	5,3	58,0																



Coil in foil (100 m)

Packing H07 V-K/(H)07 V-K*/mm ²																		
Part. No.			26060	26061	26062	26063	26064	26065	26066	26067	26068	26069	26092	26099	26108	26109	26110	26111
1,5	3,4	14,4																
Part. No.			26112	26113	26114	26115	26116	26117	26118	26119	29855	29856	29857	29858	29860	29890	29891	29892
2,5	4,1	24,0																
Part. No.			29893	29894	29895	29896	29897	29898	29899	29905	29906	29907	29908	29909	29910	29911	29912	29913
4	4,8	38,0																
Part. No.			29914	29915	29916	29917	29918	29919	29921	29922	29923	29924	29925	29926	29927	29928	29929	29933
6	5,3	58,0																
Part. No.			29193	29194	29195	29196	29197	29198	29199	29200	29201	29202	29203	29204	29205	29206	29207	29208
10	6,8	96,0																
Part. No.			29209	29210	29211	29212	29213	29214	29215	29216	29217	29218	29219	29220	29221	29222	29223	29224
16	8,1	154,0																
Part. No.			29225	29226	29227	29228	29229	29230	29231	29232	29233	29234	29235	29236	29237	29238	29239	29240
25	10,2	240,0																
Part. No.			29241	29242	29243	29244	29245	29246	29247	29248	29249	29250	29251	29252	29253	29254	29255	29256
35	11,7	336,0																
Part. No.			29257	29258	29259	29260	29261	29262	29263	29264	29265	29266	29267	29268	29269	29270	29271	29272
50	13,9	480,0																
Part. No.			29273	29274	29275	29276	29277	29278	29279	29280	29281	29282	29283	29284	29285	29286	29287	29288
70	16,0	672,0																
Part. No.			29289	29290	29291	29292	29293	29294	29295	29296	29297	29298	29299	29300	29301	29302	29303	29304
95	18,2	912,0																
Part. No.			29418	29419	29420	29421	29422	29423	29424	29425	29426	29427	29428	29429	29430	29431	29432	29433
120	20,2	1152,0																
Part. No.			29434	29435	29436	29437	29438	29439	29440	29441	29442	29443	29444	29445	29446	29447	29448	29449
150	22,5	1440,0																
Part. No.			29494	29495	29496	29497	29498	29499	29590	29591	29592	29593	29594	29595	29596	29597	29598	29599
185	24,9	1776,0																
Part. No.			29813	29814	29815	29816	29817	29818	29819	29840	29841	29842	29843	29844	29845	29846	29847	29848
240	28,4	2304,0																



Drum

Packing H07 V-K/(H)07 V-K*/mm ²																		
Part. No.			26825	26826	26827	26828	26829	26830	26831	26832	26833	26834	26835	26836	26837	26838	26839	26840
10	6,8	96,0																
Part. No.			26841	26842	26843	26844	26845	26846	26847	26848	26849	26850	26851	26852	26853	26854	26855	26856
16	8,1	154,0																
Part. No.			26857	26858	26859	26860	26861	26862	26863	26864	26865	26866	26867	26868	26869	26870	26871	26872
25	10,2	240,0																
Part. No.			26873	26874	26875	26876	26877	26878	26879	26880	26881	26882	26883	26884	26885	26886	26887	26888
35	11,7	336,0																
Part. No.			26889	26890	26891	26892	26893	26894	26895	26896	26897	26898	26899	26900	26901	26902	26903	26904
50	13,9	480,0																
Part. No.			26905	26906	26907	26908	26909	26910	26911	26912	26913	26914	26915	26916	26917	26918	26919	26920
70	16,0	672,0																
Part. No.			26921	26922	26923	26924	26925	26926	26927	26928	26929	26930	26931	26932	26933	26934	26935	26936
95	18,2	912,0																
Part. No.			29305	29306	29307	29308	29309	29310	29311	29312	29313	29314	29315	29316	29317	29318	29319	29320
120	20,2	1152,0																
Part. No.			29321	29322	29323	29324	29325	29326	29327	29328	29329	29330	29331	29332	29333	29334	29335	29336
150	22,5	1440,0																
Part. No.			29337	29338	29339	29340	29341	29342	29343	29344	29345	29346	29347	29348	29349	29350	29351	29352
185	24,9	1776,0																
Part. No.			29353	29354	29355	29356	29357	29358	29359	29360	29361	29362	29363	29364	29365	29366	29367	29368
240	28,4	2304,0																

Note AWG equivalent values – see page T 15.

* Please note: The colours yellow, green and transparent are only available in (H)05 V-U resp. (H)07 V-U.

** Two-coloured combination is only permitted for (H)07 V.

PVC cables will be changed to lead free PVC successively.
Heat resistant versions see types HELUTHERM®. Colours available on request.

H05 V-U, (H)05 V-U, (H)07 V-U

PVC-Single Cores solid or single wire to VDE 0281



CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Type Cross-sec. mm ²	max-∅ mm	Cop. weight kg/km	black	gn-ye	blue	brown	red	white	grey	violet	yellow	pink	green	trans.	dk-blue	orange	o.col.	twin tone**
approx. RAL			9005	6018/1021	5015	8003	3000	1013	7000	4005	1021	3015	6018	-	5010	2003	-	-



Coil in cardboard (100 m)

Packing

H05 V-U/(H)05 V-U*/mm²

Part No.			28761	28762	28763	28764	28765	28766	28767	28768
0,5	2,5	4,8								
Part No.			28769	28770	28771	28772	28773	28774	28775	28776
0,75	2,5	7,2								
Part No.			28777	28778	28779	28780	28781	28782	28783	28784
1	2,7	9,6								



Spool (with different capacity)

Packing

H05 V-U/(H)05 V-U*/mm²

Part No.			26937	26938	26939	26940	26941	26942	26943	26944
0,5	2,5	4,8								
Part No.			26945	26946	26947	26948	26949	26950	26951	26952
0,75	2,5	7,2								
Part No.			26953	26954	26955	26956	26957	26958	26959	26960
1	2,7	9,6								



Coil in cardboard (100 m)

Packing

H07 V-U/(H)07 V-U*/mm²

Part No.			28785	28786	28787	28788	28789	28790	28791	28792
1,5	3,2	14,4								
Part No.			28793	28794	28795	28796	28797	28798	28799	28800
2,5	3,9	24,0								
Part No.			28801	28802	28803	28804	28805	28806	28807	28808
4	4,4	38,0								
Part No.			28809	28810	28811	28812	28813	28814	28815	28816
6	5,0	58,0								
Part No.			28817	28818	28819	28820	28821	28822	28823	28824
10	6,4	96,0								



Drum

Packing

H07 V-U/(H)07 V-U*/mm²

Part No.			28145	28146	28147	28148	28149	28150	28151	28152
1,5	3,2	14,4								
Part No.			28153	28154	28155	28156	28157	28158	28159	28160
2,5	3,9	24,0								
Part No.			28161	28162	28163	28164	28165	28166	28167	28168
4	4,4	38,0								
Part No.			28169	28170	28171	28172	28173	28174	28175	28176
6	5,0	58,0								
Part No.			28177	28178	28179	28180	28181	28182	28183	28184
10	6,4	96,0								

Note AWG equivalent values – see page T 15.

U = Solid conductor; R = Stranded conductor; K = Fine stranded conductor

* Please note: The colours yellow, green and transparent are only available in (H)05 V-U resp. (H)07 V-U.

Heat resistant versions see types HELUTHERM®. Colours available on request.

** Two-coloured combination is only permitted for (H)07 V.

PVC cables will be changed to lead free PVC successively.

H07 V-R, H05 V-K, (H)07 V-K**

PVC-Single Cores solid or fine wire stranded to VDE 0281



CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Type Cross-sec. mm ²	max-∅ mm	Cop. weight kg / km	black	gn-ye	blue	brown	red	white	grey	violet	yellow	pink	green	trans.	dk-blue	orange	o.col.	twin tone**
approx. RAL			9005	6018/1021	5015	8003	3000	1013	7000	4005	1021	3015	6018	-	5010	2003	-	-



Coil in foil (100 m)

Packing

H07 V-R/mm²

Part No.			28825	28826	28827	28828	28829	28830	28831	28832								
16	7,8	154,0																
Part No.			28833	28834	28835	28836	28837											
25	9,7	240,0																
Part No.			28838	28839	28840	28841	28842											
35	10,9	336,0																
Part No.			28843	28844	28845	28846	28847											
50	12,8	480,0																
Part No.			28848	28849	28850	28851	28852											
70	14,6	672,0																
Part No.			28853	28854	28855	28856	28857											
95	17,1	912,0																
Part No.			28858	28859	28860	28861	28862											
120	18,8	1152,0																
Part No.			28863	28864	28865	28866	28867											
150	20,9	1440,0																
Part No.			28868	28869	28870	28871	28872											
185	23,3	1776,0																
Part No.			28873	28874	28875	28876	28877											
240	26,6	2304,0																



Drum

Packing

H07 V-R/mm²

Part No.			28185	28186	28187	28188	28189	28190	28191	28192								
16	7,8	154,0																
Part No.			28193	28194	28195	28196	28197											
25	9,7	240,0																
Part No.			28198	28199	28200	28201	28202											
35	10,9	336,0																
Part No.			28203	28204	28205	28206	28207											
50	12,8	480,0																
Part No.			28208	28209	28210	28211	28212											
70	14,6	672,0																
Part No.			28213	28214	28215	28216	28217											
95	17,1	912,0																
Part No.			28218	28219	28220	28221	28222											
120	18,8	1152,0																
Part No.			28223	28224	28225	28226	28227											
150	20,9	1440,0																
Part No.			28228	28229	28230	28231	28232											
185	23,3	1776,0																
Part No.			28233	28234	28235	28236	28237											
240	26,6	2304,0																

Twin tone PVC-Single Cores in Coils

Type Part No. Cross sec. mm ²	max. ∅ mm	Cop. weight kg / km	red-white	blue-white	brown-white
H05 V-K/mm²					
Part No.			29370	29375	29380
0,5	2,5	4,8			
Part No.			29371	29376	29381
0,75	2,7	7,2			
Part No.			29372	29377	29382
1	2,8	9,6			
(H)07 V-K**/mm²					
Part No.			29373	29378	29383
1,5	3,4	14,4			
Part No.			29374	29379	29384
2,5	4,1	24,0			
Part No.			29385	29386	29387
4	4,8	38,0			
Part No.			29388	29389	29390
6	5,3	58,0			
Part No.			29391	29392	29393
10	6,8	96,0			

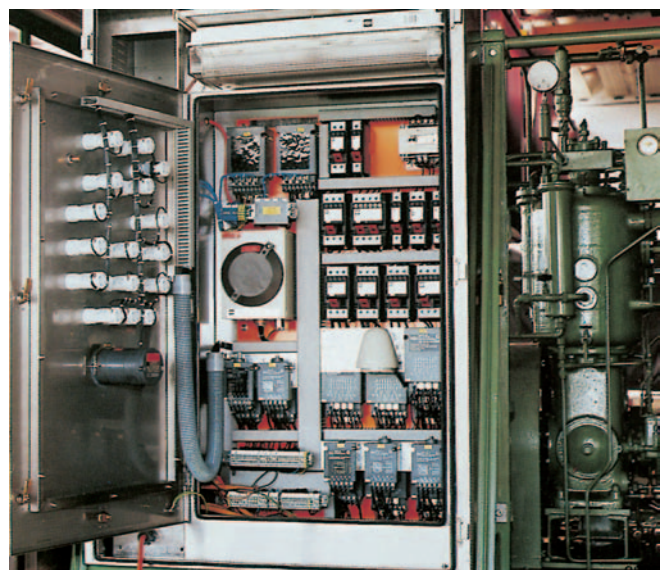
* Please note: The colours yellow, green and transparent are only available in (H)05 V-U resp. (H)07 V-U.

** Two-coloured combination is only permitted for (H)07 V.

U = Solid conductor; R = Stranded conductor; K = Fine stranded conductor

Heat resistant versions see types HELUTHERM®. Colours available on request.

PVC cables will be changed to lead free PVC successively.



Explosion protected control system

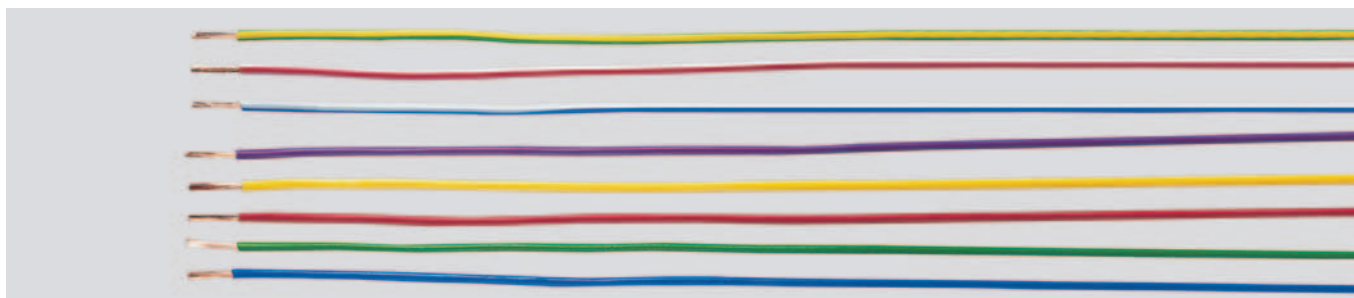
Works photo: R. Stahl GmbH

Note AWG equivalent values – see page T 15. Other colour combinations on request.

H05 V-K, H07 V-K PVC-Single Cores to VDE 0281



◁ HAR ▷



CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Barrels, one-way barrels or barrels on hire

Type cross section mm ²	one-way cardboard 8-angular dimension in mm	ca. contents in m
------------------------------------	---	-------------------

L1Y		
0,25	500 x 500 x 420	10000
0,50	500 x 500 x 420	7000
0,75	500 x 500 x 420	5000
1,00	500 x 500 x 420	4000
1,50	500 x 500 x 420	3000

Type cross section mm ²	one-way barrels 8-on guar dimension in mm	ca contents ca. in m
------------------------------------	---	----------------------

H05 V-K H07 V-K		
0,50	400 x 400 x 500	4000
0,75	400 x 400 x 500	3500
1,00	400 x 400 x 500	3000
1,50	400 x 400 x 500	2000
2,50	400 x 400 x 500	1200
4,00	400 x 400 x 500	900
6,00	400 x 400 x 500	800

Type cross section mm ²	one-way barrels 8-on guar dimension in mm	ca contents ca. in m
------------------------------------	---	----------------------

H05 V-K H07 V-K		
0,50	400 x 400 x 800	7000
0,75	400 x 400 x 800	6000
1,00	400 x 400 x 800	5200
1,50	400 x 400 x 800	3500
2,50	400 x 400 x 800	2000



Delivery for one-way barrel

Works photo: HELUKABEL®

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/EN 50265-2-1/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

***) Note

AWG equivalent values – see page T 15.

K = Fine stranded conductor

PVC cables will be changed to lead free PVC successively.



CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/EN 50265-2-1/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Type X05 V-K 80°C

Cross sec. mm ²	Part no.	Cop. weight kg / km	Weight ca. kg / km
0,5	30X0Y	4,8	8,9
0,75	30X1Y	7,2	12,0
1	30X2Y	9,6	14,5

X = Colour
Y = Digit

Type X07 V-K 80°C

Cross sec. mm ²	Part no.	Cop. weight kg / km	Weight ca. kg / km
1,5	30X3Y	14,4	20,5
2,5	30X4Y	24,0	32,3
4	30X5Y	38,0	48,3
6	30X6Y	58,0	68,3
10	30X7Y	96,0	115,0
16	30X8Y	154,0	170,0
25	30X9Y	240,0	270,0

X = Colour
Y = Digit

The order numbers quoted above refer to **black** cores with **white** figure imprint.

Other colours available on request.*)

Core colours: black = 5
red = 6
blue = 7 to RAL 5015, also available to RAL 5010
yellow = 8
green = 9

Sizes between 0,50 mm² and 2,50 mm² are delivered on spools of 200 and 250 m, depending on core size. As of 4,00 mm² delivery is made on 100 m rings (also available on drums or spools on request).

**) Note

AWG equivalent values – see page T 15.

PVC cables will be changed to lead free PVC successively.

*) Order example

diameter = 10 mm²
colour = blue number coded 8.

Item No.: **30778**
 |
 | Y = number = 8
 |
 | X = blue = 7

For **black** cores items nos. 30500 to 30599 are applicable (Diameter 0,5 mm² to 25 mm² with number 0 to number 9)

For **red** cores items nos. 30600 to 30699 are applicable (Diameter 0,5 mm² to 25 mm² with number 0 to number 9)

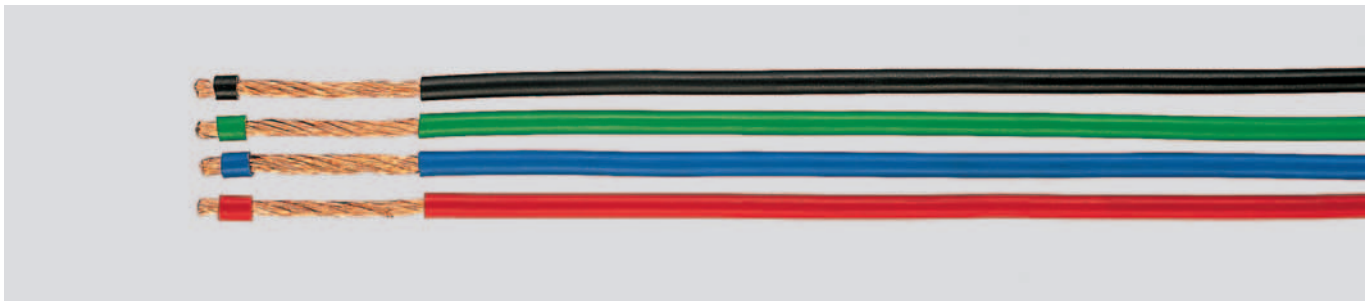
For **blue** cores items nos. 30700 to 30799 are applicable (Diameter 0,5 mm² to 25 mm² with number 0 to number 9)

For **yellow** cores items nos. 30800 to 30899 are applicable (Diameter 0,5 mm² to 25 mm² with number 0 to number 9)

For **green** cores items nos. 30900 to 30999 are applicable (Diameter 0,5 mm² to 25 mm² with number 0 to number 9)



LifY Single Core 1 kV extra fine wires with highest flexibility



Technical data

- Special PVC insulated extra fine stranded wires
- Extreme flexible by special design
- Adapted to DIN VDE 0250, 0281, 0295
- **Temperature range**
-15°C to +80°C
- **Nominal voltage** 1000 V
- **Test voltage** 3000 V
- **Bending radius**, flexing approx. 8x cable Ø

Cable structure

- Bare copper, extra fine wire conductors, bunch stranded, see table below
- Conductor special stranded
- PVC-core insulation with plasticized and elastic PVC
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/EN 50265-2-1/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Application

The LifY single cores are used as super flexible insulated strand wires for switch cabinets, as measuring cable for testing, laboratories, research etc.

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	core colours	No. cores x cross-sec. mm ²	Conductor-make-up nominal value	Outer Ø ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no. *)
151___		0,1	51 x 0,05	1,0	1,2	2,1	-
152___		0,14	72 x 0,05	1,1	1,4	2,6	26
153___		0,25	65 x 0,07	1,4	2,5	4,2	24
154___		0,5	132 x 0,07	2,0	5,5	8,0	20
155___		0,75	195 x 0,07	2,2	8,0	12,0	18
156___		1	260 x 0,07	2,5	10,8	18,0	17
157___		1,5	192 x 0,10	3,5	15,0	22,0	16
158___		2,5	320 x 0,10	3,8	25,0	37,0	14
159___		4	512 x 0,10	5,0	40,0	50,0	12
15135	gn-ye	6	768 x 0,10	6,5	60,0	71,0	10
15093	bk	6	768 x 0,10	6,5	60,0	71,0	10
15114	rd	6	768 x 0,10	6,5	60,0	71,0	10
15115	bu	6	768 x 0,10	6,5	60,0	71,0	10
15116	bn	6	768 x 0,10	6,5	60,0	71,0	10
15136	gn-ye	10	1280 x 0,10	7,5	100,0	130,0	8
15094	bk	10	1280 x 0,10	7,5	100,0	130,0	8
15117	rd	10	1280 x 0,10	7,5	100,0	130,0	8
15118	bu	10	1280 x 0,10	7,5	100,0	130,0	8
15119	bn	10	1280 x 0,10	7,5	100,0	130,0	8
15137	gn-ye	16	2048 x 0,10	9,0	160,0	187,0	6
15095	bk	16	2048 x 0,10	9,0	160,0	187,0	6
15120	rd	16	2048 x 0,10	9,0	160,0	187,0	6
15121	bu	16	2048 x 0,10	9,0	160,0	187,0	6
15122	bn	16	2048 x 0,10	9,0	160,0	187,0	6

Part No.	core colours	No. cores x cross-sec. mm ²	Conductor-make-up nominal value	Outer Ø ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no. *)
15138	gn-ye	25	3234 x 0,10	10,5	240,0	294,0	4
15096	bk	25	3234 x 0,10	10,5	240,0	294,0	4
15123	rd	25	3234 x 0,10	10,5	240,0	294,0	4
15124	bu	25	3234 x 0,10	10,5	240,0	294,0	4
15125	bn	25	3234 x 0,10	10,5	240,0	294,0	4
15139	gn-ye	35	4508 x 0,10	11,7	336,0	380,0	2
15097	bk	35	4508 x 0,10	11,7	336,0	380,0	2
15126	rd	35	4508 x 0,10	11,7	336,0	380,0	2
15127	bu	35	4508 x 0,10	11,7	336,0	380,0	2
15128	bn	35	4508 x 0,10	11,7	336,0	380,0	2
15140	gn-ye	50	6468 x 0,10	14,7	480,0	521,0	1
15098	bk	50	6468 x 0,10	14,7	480,0	521,0	1
15129	rd	50	6468 x 0,10	14,7	480,0	521,0	1
15130	bu	50	6468 x 0,10	14,7	480,0	521,0	1
15131	bn	50	6468 x 0,10	14,7	480,0	521,0	1
15141	gn-ye	70	8967 x 0,10	17,0	672,0	740,0	2/0
15099	bk	70	8967 x 0,10	17,0	672,0	740,0	2/0
15132	rd	70	8967 x 0,10	17,0	672,0	740,0	2/0
15133	bu	70	8967 x 0,10	17,0	672,0	740,0	2/0
15134	bn	70	8967 x 0,10	17,0	672,0	740,0	2/0

Please **add** the individual part-no. (151___ to 159___) for order with the following identification colour code table

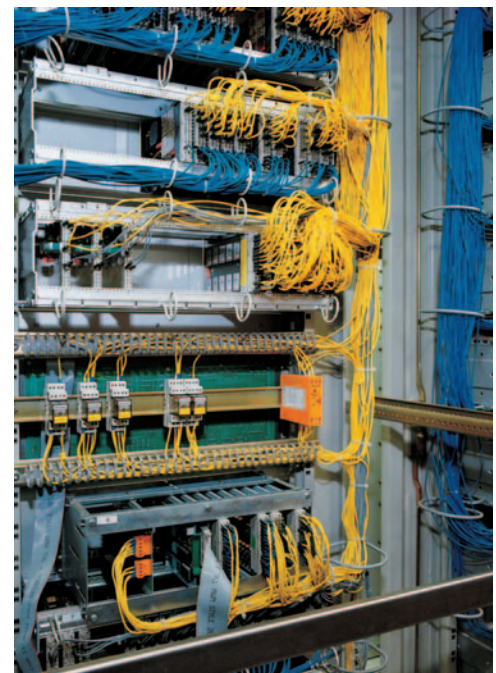
___00	green	gn
___01	black	bk
___02	red	rd
___03	blue	bu
___04	brown	bn
___05	white	wh
___06	grey	gy
___07	violet	vt
___08	yellow	ye
___09	orange	og
___10	transparent	tr
___11	pink	pk
___12	beige	bg
___13	twin-colour	t-c

*) Note

AWG sizes are approximate equivalent values.
The actual cross-section is in mm² – see page T 15.

Liffy on request.

PVC cables will be changed to lead free PVC successively.



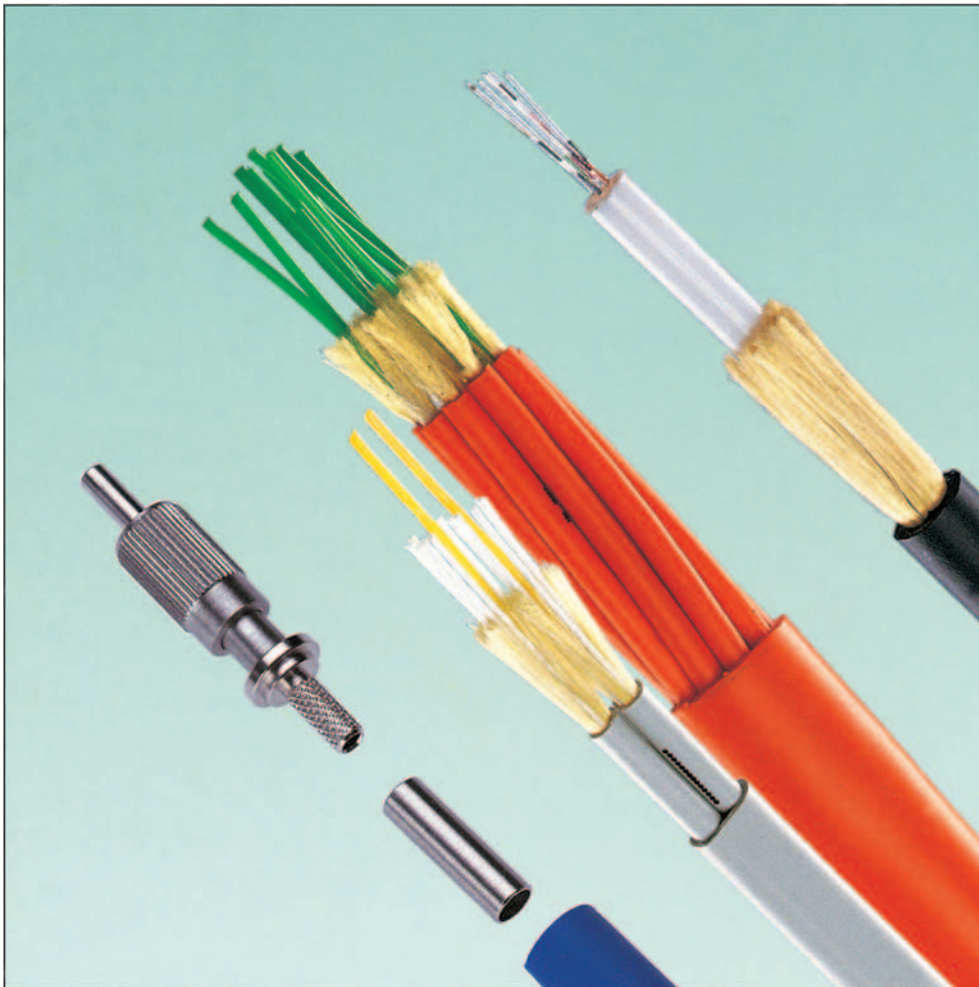
Works photo: R. Stahl GmbH

Fibre Optic and Data Networks

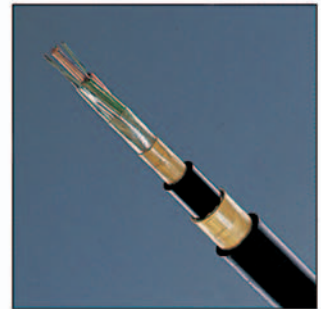
Edition of our delivery programme

*Walk with us
into the age of
light*

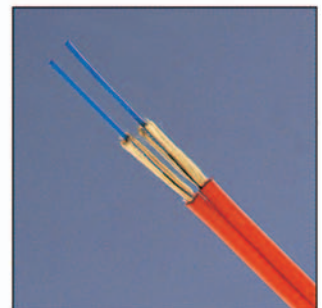
Modern communication systems are unthinkable without fibre optic technics. The use of fibre optic cables in the different branches increase constantly. HELUKABEL® offers you a complete product line of fibre optic cables with accessories which enable a trouble-free high transmission rate of data signals in this medium. The use of fibre optic transmission systems eliminates electromagnetic disturbances, spark troubles and problems in case of lightning-stroke. For this reason many organisations who have installed Network Systems decide to install fibre optic Transmission systems in preference to other options.



Outdoor cable



Indoor cable

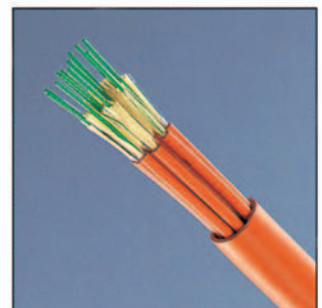


Accessories



- Converter
- Multiplexer
- Modems
- Measuring instruments
- Splicing materials
- Installation tools
- Pigtails
- Patch cables
- Connectors (FSMA/ST/DIN St)

Breakout-cable



All cables are also with rodent protection available.

We also offer pre-assembled fibre optic cables (Pigtails and Patch cables) according to your individual requirements, Mobile cables, Duplex cables, special cables as well as cables at Low Cost-Version.

The latest catalogue "Data Networks" can be ordered with attached mail order cards.