

Photo: HELUKABEL®

# Pre-assembled cables

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# Pre-assembled cables

Today, more and more users are installing pre-assembled and pre-mounted cables and wires. Many years ago HELUKABEL® recognized this trend and consequently we can offer a complete range of pre-assembled cables and wires. Other assembly variations according to your special requirements are available.

The versatility of application possibilities and combinations of plugs and connection types can offer an economical and easy solution to your problems. You will benefit from our long experience and from the advantage of an easy and effective installation.

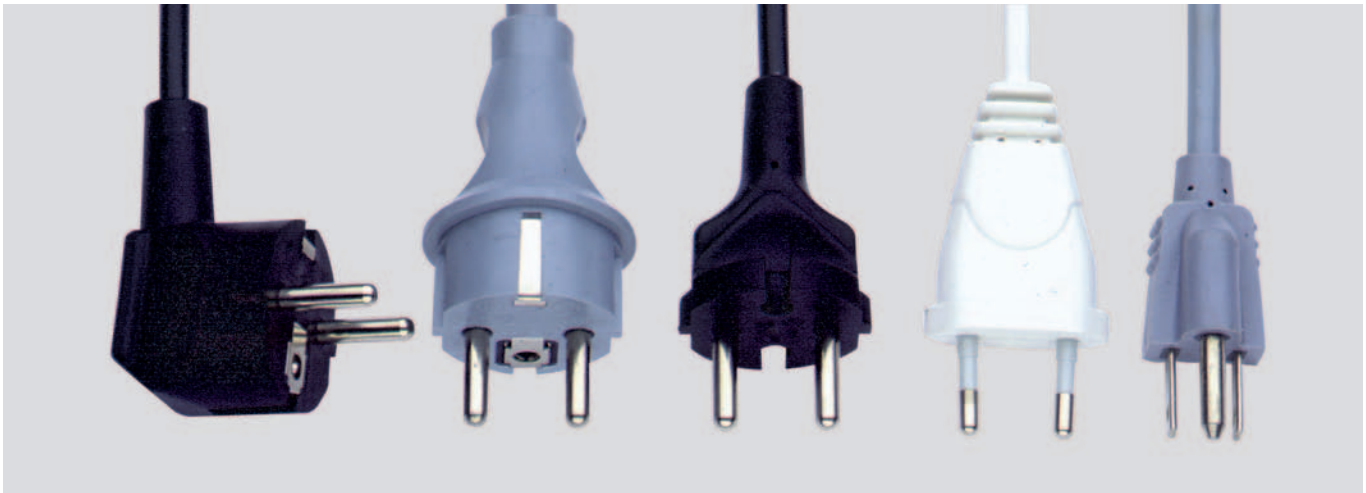
Questions to connection techniques? HELUKABEL® has the answer.

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Simatic® = registered trade mark of SIEMENS

# PVC connecting cables



Schuko covered plug with double grounding System

Schuko central plug with double grounding system

Contour plug

Euro flat plug

in US and/or CSA version

## Technical data

- **Temperature range**  
flexing  $-5^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
  - **Nominal voltage**  
H03W-F 300/700 V  
H03V-F 300/700 V
  - **Test voltage** 2000 V
- End 1: Connector  
End 2: 30 mm stripped with wire end ferrule

## Cable structure

- Plain copper conductor, fine wire stranded to DIN VDE 0295 cl. 5, IEC 60228 cl. 5 and HD 383
- PVC core insulation
- Core identification acc. to VDE colour code
- Cores stranded in layers
- Green/yellow earth core (3 or more cores)
- PVC outer sheath

## Application

Hand tool connection

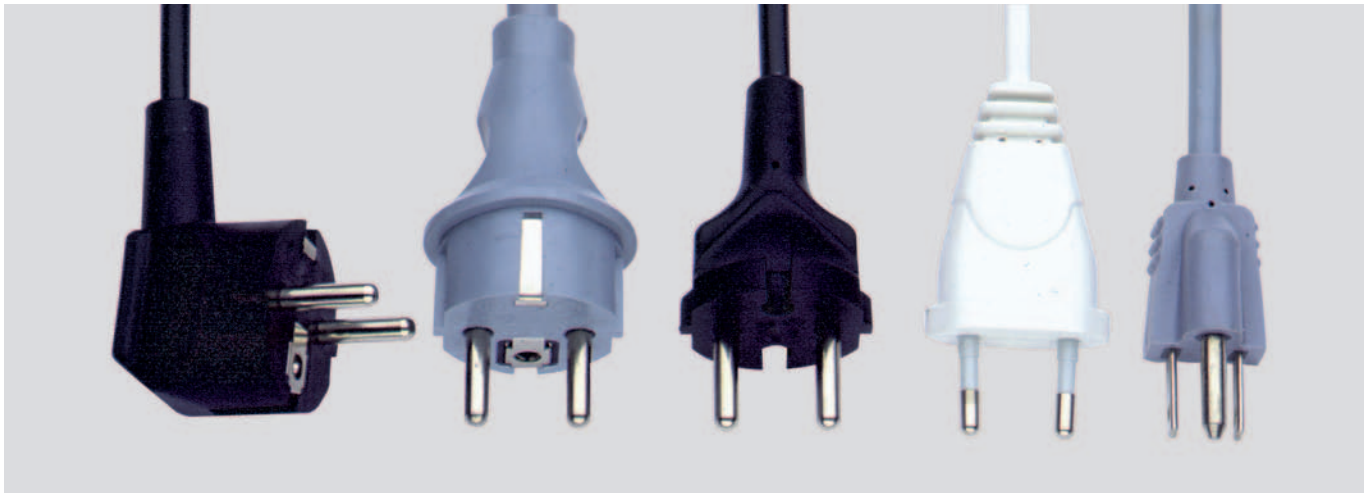
Part no.	Type/ cross-sec.			Length m	Plug type	AWG-no.)*
	black	white	grey			
84412	84416	–	H03VVH2-F 2 x 0,75	2	Euroflach (EF)	18
84413	84417	–	H03VVH2-F 2 x 0,75	3	Euroflach (EF)	18
84420	84421	–	H03VVH2-F 2 x 0,75	5	Euroflach (EF)	18
84414	84418	–	H03VV-F 2 x 0,75	2	Euroflach (EF)	18
84415	84419	–	H03VV-F 2 x 0,75	3	Euroflach (EF)	18
84422	84423	–	H03VV-F 2 x 0,75	5	Euroflach (EF)	18
84424	84425	84428	H03VV-F 2 x 0,75	2	Zentralkonturen (ZK)	18
84426	84427	84429	H03VV-F 2 x 0,75	3	Zentralkonturen (ZK)	18
86870	84430	84431	H03VV-F 2 x 0,75	5	Zentralkonturen (ZK)	18
87127	87128	84432	H05VV-F 2 x 1,0	2	Zentralkonturen (ZK)	17
86765	87130	84433	H05VV-F 2 x 1,0	3	Zentralkonturen (ZK)	17
86867	84434	84435	H05VV-F 2 x 1,0	5	Zentralkonturen (ZK)	17
84764	87575	84436	H03VV-F 3 x 0,75	2	Schukozentral (SZ)	18
84437	84438	84439	H03VV-F 3 x 0,75	3	Schukozentral (SZ)	18
84440	84441	84442	H03VV-F 3 x 0,75	5	Schukozentral (SZ)	18
84400	84406	87725	H03VV-F 3 x 0,75	2	Schukowinkel (SW)	18
84401	84407	84446	H03VV-F 3 x 0,75	3	Schukowinkel (SW)	18
87748	84447	87277	H03VV-F 3 x 0,75	5	Schukowinkel (SW)	18
87137	87139	84451	H05VV-F 3 x 1,0	2	Schukozentral (SZ)	17
87138	87140	84452	H05VV-F 3 x 1,0	3	Schukozentral (SZ)	17
84453	84454	84455	H05VV-F 3 x 1,0	5	Schukozentral (SZ)	17
84402	84408	84459	H05VV-F 3 x 1,0	2	Schukowinkel (SW)	17
84403	84409	87410	H05VV-F 3 x 1,0	3	Schukowinkel (SW)	17
87074	87141	84460	H05VV-F 3 x 1,0	5	Schukowinkel (SW)	17
84464	84465	84466	H05VV-F 3 x 1,5	2	Schukozentral (SZ)	16
84467	84468	84469	H05VV-F 3 x 1,5	3	Schukozentral (SZ)	16
84470	84471	84472	H05VV-F 3 x 1,5	5	Schukozentral (SZ)	16
84404	84410	84475	H05VV-F 3 x 1,5	2	Schukowinkel (SW)	16
84405	84411	87503	H05VV-F 3 x 1,5	3	Schukowinkel (SW)	16
87142	87143	84476	H05VV-F 3 x 1,5	5	Schukowinkel (SW)	16

### \*) Note

AWG sizes are approximate equivalent values.  
The actual cross-section is in  $\text{mm}^2$  – see page T 15.

Other number of wires, cross-section, spiral lengths and end lengths on request.

# Rubber connecting cables



Schuko covered plug with double grounding System

Schuko central plug with double grounding system

Contour plug

Euro flat plug

in US and/or CSA version

## Technical data

- **Temperature range**  
flexing  $-30^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$
  - **Nominal voltage**  
H05RR-F/H05RN-F 300/500 V  
H07RN-F 450/750 V
  - **Test voltage** 3000 V
- End 1: Connector  
End 2: 30 mm stripped with wire end ferrule

## Cable structure

- Plain copper conductor, fine wire stranded to DIN VDE 0295 cl. 5, IEC 60228 cl. 5 and HD 383
- PVC core insulation
- Core identification to VDE 0293 and HD 386
- Rubber core insulation
- Core identification to VDE 0293 and HD 186
- Cores stranded in layers
- PVC outer sheath

## Application

- Hand tool connection  
Light workshop equipment
- H07RN-F heavy equipment for use in (e.g):  
Farm equipment, Building industry

Part no. <b>black</b>	Cable type/ cross-section mm <sup>2</sup>	Length m	Plug type	AWG- no*)
84481	H05RR-F 2x0,75	3	Zentralkonturen (ZK)	18
84482	H05RR-F 2x0,75	5	Zentralkonturen (ZK)	18
84483	H05RR-F 2x0,75	10	Zentralkonturen (ZK)	18
87738	H05RR-F 2x1,0	3	Zentralkonturen (ZK)	17
86961	H05RR-F 2x1,0	5	Zentralkonturen (ZK)	17
84485	H05RR-F 2x1,0	10	Zentralkonturen (ZK)	17
86960	H05RR-F 2x1,5	3	Zentralkonturen (ZK)	16
87406	H05RR-F 2x1,5	5	Zentralkonturen (ZK)	16
84487	H05RR-F 2x1,5	10	Zentralkonturen (ZK)	16
87690	H05RR-F 3x0,75	3	Schukozentral (SZ)	18
84489	H05RR-F 3x0,75	5	Schukozentral (SZ)	18
84490	H05RR-F 3x0,75	10	Schukozentral (SZ)	18
84492	H05RR-F 3x0,75	3	Schukowinkel (SW)	18
84493	H05RR-F 3x0,75	5	Schukowinkel (SW)	18
84494	H05RR-F 3x0,75	10	Schukowinkel (SW)	18
86740	H07RN-F 3x1,0	3	Schukozentral (SZ)	17
87145	H07RN-F 3x1,0	5	Schukozentral (SZ)	17
87604	H07RN-F 3x1,0	10	Schukozentral (SZ)	17
84496	H07RN-F 3x1,0	3	Schukowinkel (SW)	17
84497	H07RN-F 3x1,0	5	Schukowinkel (SW)	17
84498	H07RN-F 3x1,0	10	Schukowinkel (SW)	17
86741	H07RN-F 3x1,5	3	Schukozentral (SZ)	16
87084	H07RN-F 3x1,5	5	Schukozentral (SZ)	16
84499	H07RN-F 3x1,5	10	Schukozentral (SZ)	16
84653	H07RN-F 3x1,5	3	Schukowinkel (SW)	16
84654	H07RN-F 3x1,5	5	Schukowinkel (SW)	16
84655	H07RN-F 3x1,5	10	Schukowinkel (SW)	16

### \*) Note

AWG sizes are approximate equivalent values.  
The actual cross-section is in mm<sup>2</sup> – see page T 15.

Other number of wires, cross-section, spiral lengths and end lengths on request.

# PUR connecting cables, orange



## Technical data

- **Temperature range**  
-40°C to +90°C
- **Nominal voltage**  
H05BQ-F 300/500 V  
H07BQ-F 450/750 V
- **Test voltage** 3000 V
- End 1: Plug
- End 2: 30 mm stripped with wire end ferrule

## Cable structure

- Tinned copper conductor, fine wire stranded
- Rubber core insulation
- Cores stranded
- Cores colour coded to VDE 0293
- PUR outer sheath orange with VDE marking

## Application

General, for use where VDE standard cables are recommended

Part no. <b>orange</b>	Cable type/ cross-section mm <sup>2</sup>	Length m	Plug type	AWG- no*)
84656	H05BQ-F 2x0,75	2	Zentralkonturen (ZK)	18
87802	H05BQ-F 2x0,75	3	Zentralkonturen (ZK)	18
84657	H05BQ-F 2x0,75	5	Zentralkonturen (ZK)	18
84658	H05BQ-F 2x0,75	10	Zentralkonturen (ZK)	18
84659	H05BQ-F 3x0,75	2	Schukozentral (SZ)	18
84660	H05BQ-F 3x0,75	3	Schukozentral (SZ)	18
84661	H05BQ-F 3x0,75	5	Schukozentral (SZ)	18
84662	H05BQ-F 3x0,75	10	Schukozentral (SZ)	18
84663	H05BQ-F 2x1,0	2	Zentralkonturen (ZK)	17
84664	H05BQ-F 2x1,0	3	Zentralkonturen (ZK)	17
84665	H05BQ-F 2x1,0	5	Zentralkonturen (ZK)	17
84666	H05BQ-F 2x1,0	10	Zentralkonturen (ZK)	17
84667	H05BQ-F 3x1,0	2	Schukozentral (SZ)	17
86775	H05BQ-F 3x1,0	3	Schukozentral (SZ)	17
86774	H05BQ-F 3x1,0	5	Schukozentral (SZ)	17
84668	H05BQ-F 3x1,0	10	Schukozentral (SZ)	17
84669	H07BQ-F 2x1,5	2	Zentralkonturen (ZK)	16
84670	H07BQ-F 2x1,5	3	Zentralkonturen (ZK)	16
86989	H07BQ-F 2x1,5	5	Zentralkonturen (ZK)	16
84671	H07BQ-F 2x1,5	10	Zentralkonturen (ZK)	16
84672	H07BQ-F 3x1,5	2	Schukozentral (SZ)	16
86782	H07BQ-F 3x1,5	3	Schukozentral (SZ)	16
87548	H07BQ-F 3x1,5	5	Schukozentral (SZ)	16
84673	H07BQ-F 3x1,5	10	Schukozentral (SZ)	16

### \*) Note

AWG sizes are approximate equivalent values.  
The actual cross-section is in mm<sup>2</sup> – see page T 15.

Other number of wires, cross-section, spiral lengths and end lengths on request.

# Extensions / Supply cables



## CEE-Extensions

Part no.	Cable type / cross-section	Length m	Cable colour	AWG-no.¹)
84688	H05RN-F 5 x 1,5	5	black	16
84689	H07RN-F 5 x 1,5	10	black	16
87164	H07RN-F 5 x 1,5	25	black	16
84690	H07RN-F 5 x 2,5	5	black	14
84691	H07RN-F 5 x 2,5	10	black	14
87416	H07RN-F 5 x 2,5	25	black	14



## Cold equipment

Part no.		Cable type / cross-section	Length m	Cable colour	AWG-no.¹)
87476	<b>black</b>	H05VV-F 3 x 0,75	2		18
84674	<b>grey</b>	H05VV-F 3 G 0,75	3		18
87196		H05VV-F 3 x 1,0	2		17
87549		H05VV-F 3 x 1,0	3		17

## PVC-Extensions

Part no.	Cable type / cross-section	Length m	Cable colour	AWG-no.¹)
87445	H05VV-F 3 G 1,5	2	white	16
87919	H05VV-F 3 G 1,5	3	white	16
84175	H05VV-F 3 G 1,5	5	white	16

# Extensions / Supply cables

## Extension Unit with Switch

Rigid Channel Profile, partial double walls, offers good security. Screw connection version. 2-pole illuminated switch  
6 protected-contact sockets, 2,4 m cable  
250 V, 16 A, max 3500 W



Part no.	Cable type / cross-section	Length m	Cable colour	AWG-no.*)
84179	H05VV-F 3G1,5	2,4	white	16

## Cable Drum

H07RN-F with 3 sockets  
H05VV-F with 4 sockets



Part no.	Cable type / cross-section	Length m	Cable colour	AWG-no.*)
84692	H07RN-F 3 x 1,5	40	black	16
87414	H05VV-F 3 x 1,5	25	black	16
84680	H05VV-F 3 x 1,5	50	black	16

## Cable box

Integrated non-resetting thermostatic switch as overheating protection, VDE, ÖVE  
black housing , Red cable drum  
250 V, 16 A, max. 3500 W



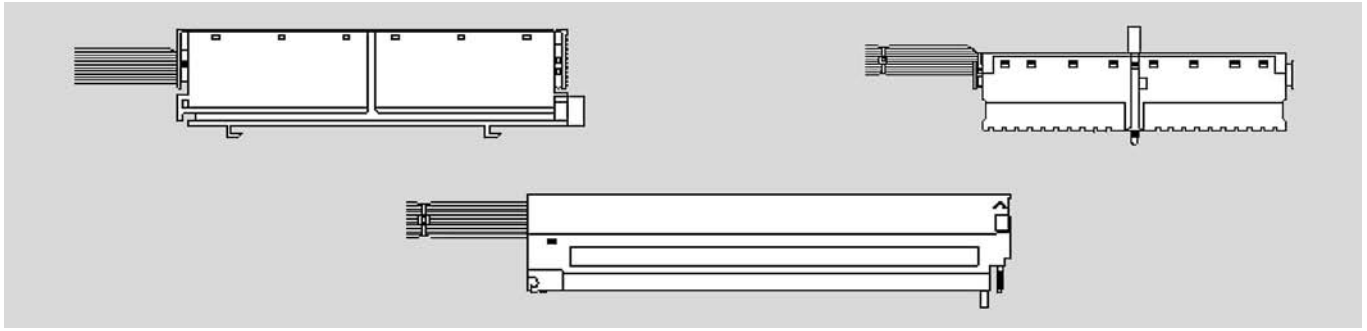
Part no.	Cable type / cross-section	Length m	Cable colour	AWG-no.*)
84176	H05VV-F 3G1,5	10	black	16

### \*) Note

AWG sizes are approximate equivalent values.  
The actual cross-section is in mm<sup>2</sup> – see page T 15.

Other number of wires, cross-section, spiral lengths and end lengths on request.

# Front connecting cables for Simatic® S7

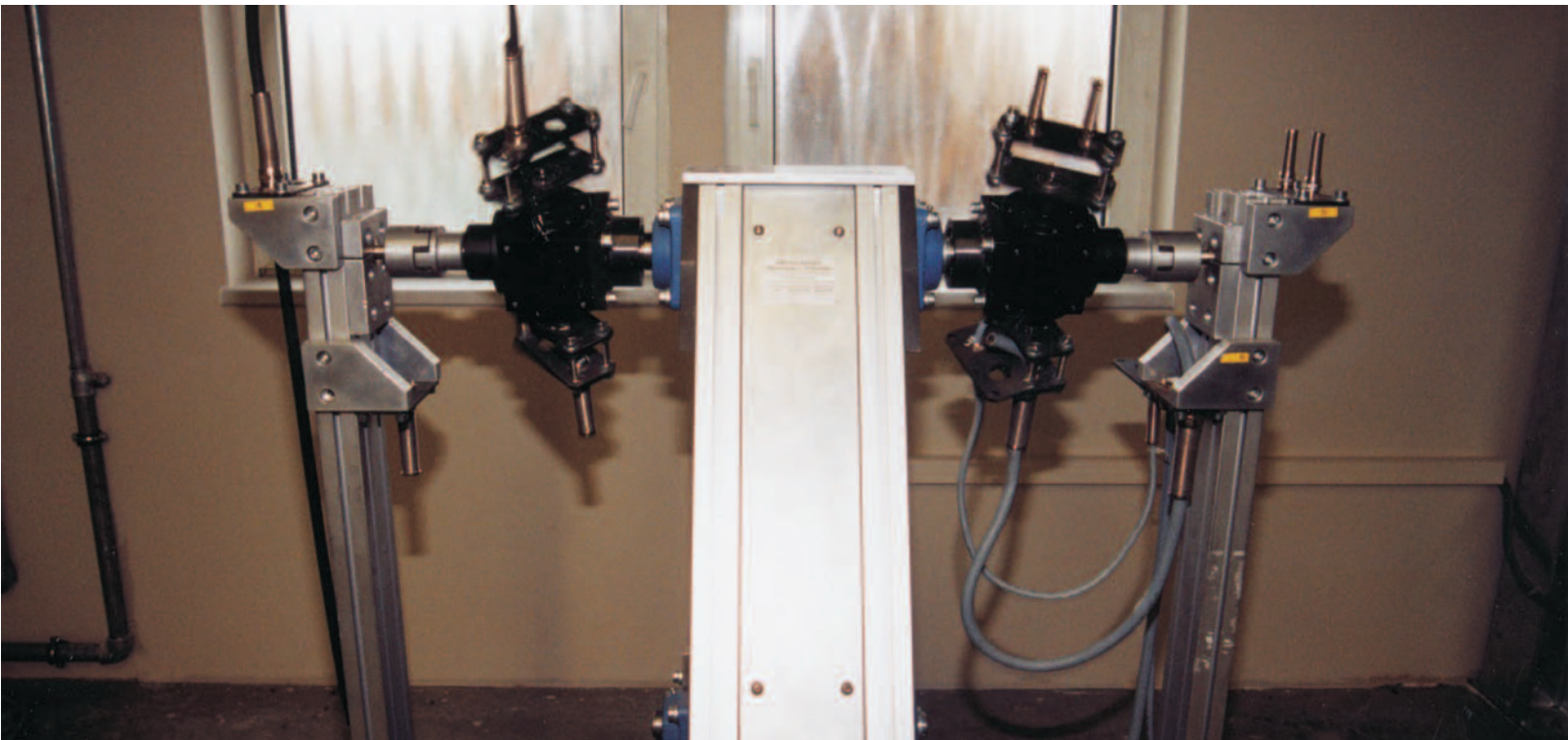


## Simatic® S7 Standard blue

Part No.	Connection type	Length m	Cu-weight kg/1000	Weight ca. kg/100
<b>Front Connector 392-1AJ00-0AA0 20-pin for Simatic® S7-300 Spring version (Screw fitting version on request)</b>				
84867		2	324	510
84868		3	468	730
84869		5	756	1170
<b>Front Connector 392-1AM00-0AA0 40-pin for Simatic® S7-300 Spring version (Screw fitting version on request)</b>				
84870		2	648	1000
84871		3	936	1440
84872		5	1512	2320
<b>Front Connector 492-1CL00-0AA0 48-pin for Simatic® S7-400 Crimp Version (Screw or spring version on request)</b>				
84873		2	746	1120
84874		3	1077	1630
84875		5	1739	2640

# Research & Development

**HELUKABEL® is responding to market demands with continuous new development of cable types.**



We continuously develop new connection types with special construction for extreme conditions in collaboration with our Customers, such as very small bending radius, or repeated bending strain with long life durabilities for extended operation in multilayer installations. These new products are tested in our modern well-equipped Test Centre before going into production.