

## **M23 SERVO CABLE**

Specification: 6FX8002-5DS16-1BA0

Female straight - pre-wired terminals

M23, 6-pole

shielded

Power connector SIEMENS

Power cable with brake wires for SINAMICS S120 and motors with M23 connection and holding brake without cable sleeves

Further cable lengths on request.

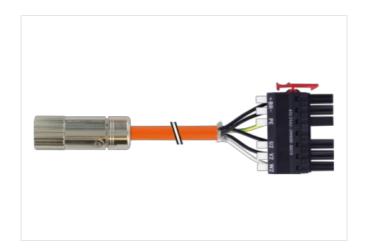
Plastic housings with good resistance against chemicals and oils.

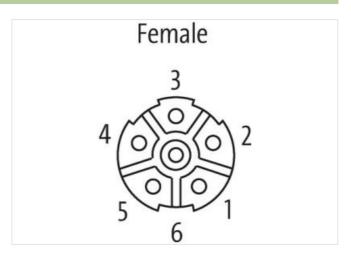
The resistance to aggressive media should be individually tested for your application. Further details on request.

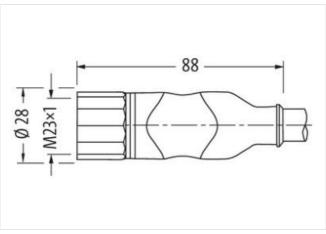
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

## **Link to Product**

## Illustration







Product may differ from Image

Cable length	10 m
Side 1	
Tightening torque	2 Nm
Family construction form	M23
Thread	M23 x 1

The information in this Product-PDF has been compiled with the utmost care.
Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-21



Width across flats         SW27           Side 2         Family construction form         M23           autable for corrugated ubse (internal 0)         23 mm           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-8.0         27279218           ECLASS-9.0         2729218           ECLASS-9.0         27090311           ECLASS-9.1         27090311           ECLASS-12.0         27090311           ECLASS-12.0         ECODO830           ECLASS-12.0         ECODO830           ECLASS-12.0         ECODO830           ECLASS-10.1         27080311           ECLASS-10.0         ECODO830           ECLASS-10.0         ECODO8300           ECLASS-10.0	suitable for corrugated tube (internal Ø)	16 mm
Family construction form         M23           Suitable for corrugated tube (internal Ø)         23 mm           Commercial data         Commercial Cata           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27060327           ECLASS-10.1         27060311           ECLASS-11.0         27060311           ECLASS-12.0         27060312           ETM-8.0         ECCORRES           CINA         4048679711289           Exclasing int         1           Electrical data   Supply         V           Operating voltage AC per power contact max.         800 V           Operating voltage AC per power contact max.         800 V           Operating voltage AC per power contact max.         250 V           Operating voltage AC per power contact max.         260 V           Operating voltage AC per power contact max.         260 V           Operating voltage AC per power contact max.         260 V           Operating voltage AC per power contact max.         260 V           Depending voltage AC per power contact max.         260 V           Accidenation (ENTICAL SECASSE)         1PSS.	Width across flats	SW27
control         Commercial data           ECLASS 6.0         27279218           ECLASS 6.1         27279218           ECLASS 7.0         27279218           ECLASS 9.0         27090387           ECLASS 9.0         27090397           ECLASS 9.1         27090397           ECLASS 9.1         270903911           ECLASS 9.1.1         27090397           ECLASS 9.2         27090397           ECLASS 9.1.2         27090397           ECLASS 9.1.3         406887911289           ECLASS 9.2         27090397           ECLASS 9.2         27090397           ECLASS 9.1.4         406887911289           Packaging unit         1           Electrical data   Supply         406887911289           Operating voltage AC per power contact max.         600 V           Operating voltage AC per signal contact max.         500 V           Operating voltage Do per general contact max.         500 V           Power protection   Exercise         50 V           Degree of protection   Exercise         50 V           Power protection   Exercise         100 V           Radd surge voltage power contacts         4 V           Radd surge voltage power contacts         4 V	Side 2	
control         Commercial data           ECLASS 6.0         27279218           ECLASS 6.1         27279218           ECLASS 7.0         27279218           ECLASS 9.0         27090387           ECLASS 9.0         27090397           ECLASS 9.1         27090397           ECLASS 9.1         270903911           ECLASS 9.1.1         27090397           ECLASS 9.2         27090397           ECLASS 9.1.2         27090397           ECLASS 9.1.3         406887911289           ECLASS 9.2         27090397           ECLASS 9.2         27090397           ECLASS 9.1.4         406887911289           Packaging unit         1           Electrical data   Supply         406887911289           Operating voltage AC per power contact max.         600 V           Operating voltage AC per signal contact max.         500 V           Operating voltage Do per general contact max.         500 V           Power protection   Exercise         50 V           Degree of protection   Exercise         50 V           Power protection   Exercise         100 V           Radd surge voltage power contacts         4 V           Radd surge voltage power contacts         4 V	Family construction form	M23
ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060317           ECLASS-1.1         27060311           ECLASS-1.1.1         27060311           ECLASS-1.1.2         27060312           ECLASS-1.1.3         4000032           ECLASS-1.2.0         2606327           ETIM-5.0         4000032           Customs striff number         65444290           GTIN         4048979711289           Packaging unit         1           Electrical data   Supply         500 V           Operating voltage AC per power contact max.         600 V           Operating voltage AC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V		23 mm
ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060317           ECLASS-1.1         27060311           ECLASS-1.1.1         27060311           ECLASS-1.1.2         27060312           ECLASS-1.1.3         4000032           ECLASS-1.2.0         2606327           ETIM-5.0         4000032           Customs striff number         65444290           GTIN         4048979711289           Packaging unit         1           Electrical data   Supply         500 V           Operating voltage AC per power contact max.         600 V           Operating voltage AC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V           Operating voltage DC per signal contact max.         260 V	Commercial data	
ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27080327           ECLASS-1.1         27080311           ECLASS-1.1         27080311           ECLASS-1.1         27080327           ECLASS-1.0         27080327           ETIM-5.0         ECOMS8-0           GTIN         4048579711289           Packaging unit         1           Electrical data   Supply           Operating voltage AC per power contact max.         800 V           Operating voltage AC per spower contact max.         250 V           Operating voltage DC per power contact max.         250 V           Operating voltage DC per power contact max.         250 V           Operating voltage DC per appower contact max.         250 V           Operating voltage DC per appower contact max.         250 V           Operating voltage DC per appower contact max.         250 V           Power portection [Electrical per lectrical pe		27270218
ECLASS-7.0         27279218           ECLASS-8.0         2779218           ECLASS-9.0         27060327           ECLASS-10.1         27060311           ECLASS-11.2         27060327           ECLASS-12.0         27060327           ETIM-5.0         EC000830           Loustons tarl number         68444200           GTIN         4048879711289           Packaging unt         1           Electrical data   Supply           Operating voltage AC per power contact max.         600 V           Operating voltage AC per power contact max.         250 V           Operating voltage AC per power contact max.         600 V           Operating voltage DC per signal contact max.         250 V           Operating voltage DC per signal contact max.         250 V           Operating voltage DC per signal contact max.         250 V           Operating voltage DC per signal contact max.         250 V           Additional condition protection degree         inserted, screwed           Follution Degree         3           Rated surge voltage power contacts         4 kV           Rated surge voltage signal contacts         2 kV           Material power growth max         2 kV           Cabitatic Material fouching data <td< td=""><td></td><td></td></td<>		
ECLASS-8.0         27279218           ECLASS-9.0         27060327           ECLASS-10.1         27060327           ECLASS-11.1         2706031           ECLASS-12.0         27060327           ETIMI-5.0         EC0000330           customs tariff number         85444290           OTIN         40887971289           Packaging und         1           Electrical data   Supply         V           Operating vollage AC per power contact max.         250 V           Operating vollage AC per signal contact max.         250 V           Operating vollage AC per power contact max.         250 V           Operating vollage DC per power contact max.         250 V           Device protection   Electrical         250 V           Device protection   Electrical         800 V           Operating vollage DC per power contact max.         250 V           Power protection   Electrical         800 V           Degree of protection   Electrical         800 V           Power protection   Electrical         800 V           Pacting and protection   Electrical         800 V           Related surge voltage power contacts at a kind protection   Electrical pro		
ECLASS 9.0         27060327           ECLASS 10.1         27060311           ECLASS 11.1         27060311           ECLASS 12.0         27060327           ETIM-5.0         EC0000830           customs tariff number         85444290           GTIN         4048879711289           Packaging unit         1           Electrical data   Supply         Electrical data   Supply           Operating voltage AC per power contact max.         600 V           Operating voltage AC per signal contact max.         250 V           Operating voltage Der power contact max.         800 V           Operating voltage Der power contact max.         250 V           Device protection   Electrical         800 V           Degree of protection   Electrical         800 V           Degree of protection   Electrical         800 V           Pegree of protection   Electrical         800 V           Raced surge voltage signal contacts         2 kV           Additional condition protection degree         1           Pollution Degree         3           Rated surge voltage signal contacts         2 kV           Material group (IEC 60684-1)         1           Mechanical data   Material data         Material proup (IEC 60684-1) <td< td=""><td></td><td></td></td<>		
ECLASS-10.1         27060311           ECLASS-11.0         27060311           ECLASS-12.0         27060317           ETIM-5.0         EC000830           uustoms tariff number         85444290           GTIN         4048879711289           Packaging unit         1           Electrical data   Supply         Coperating voltage AC per power contact max.           Operating voltage AC per signal contact max.         600 V           Operating voltage DC per signal contact max.         850 V           Operating voltage DC per signal contact max.         850 V           Powering voltage DC per signal contact max.         850 V           Powering voltage DC per signal contact max.         850 V           Powering voltage DC per signal contact max.         850 V           Powering voltage DC per signal contact max.         850 V           Powering voltage DC per signal contact max.         850 V           Powering voltage DC per signal contact max.         850 V           Powering voltage DC per signal contact max.         850 V           Residence of protection (EN IEC 60529)         IP65, IP67           Additional contilion protection degree         1804, IP67           Rated surge voltage signal contact.         4 kV           Rated surge voltage signal contact.		
ECLASS 12.0         27060327           ETIM-5.0         EC000830           customs tariff number         85444290           GTIN         4048879711289           Packaging unit         1           Electrical data   Supply         V           Operating voltage AC per power contact max.         600 V           Operating voltage AC per signal contact max.         600 V           Operating voltage DC per signal contact max.         600 V           Operating voltage DC per signal contact max.         600 V           Operating voltage DC per signal contact max.         600 V           Operating voltage DC per signal contact max.         250 V           Device protection   Electrical         V           Degree of protection   Electrical         V           Degree of protection   Electrical         PS5, IP67           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage power contacts         4 kV           Rated surge voltage signal contacts         2 kV           Material pokenia         Material Material data           Material pokenia         FKM           Material pokenia         Brass           Mechanical data   Mounting data         Brass     <		
ETIM 5.0         EC000830           customs tariff number         85444290           GTIN         404887911289           Packaging unit         1           Electrical data   Supply           Operating vollage AC per signal contact max         600 V           Operating vollage AC per signal contact max         250 V           Operating vollage DC per signal contact max         600 V           Operating vollage DC per signal contact max         250 V           Device protection [Electrical         V           Device protection [Electrical         V           Device protection (EN IEC 60529)         IP65, IP67           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage signal contacts         4 kV           Rated surge voltage signal contacts         2 kV           Macterial goak protection (Error (Erro	ECLASS-11.1	27060311
customs tariff number 85444290 GTIN 4048879711289 Packaging unit 1  Electrical data   Supply Operating voltage AC per power contact max. 600 V Operating voltage AC per signal contact max. 250 V Operating voltage DC per prover contact max. 600 V Operating voltage DC per prover contact max. 250 V Operating voltage DC per power contact max. 250 V Operating voltage DC per power contact max. 250 V Operating voltage DC per power contact max. 250 V Operating voltage DC per power contact max. 250 V Operating voltage DC per power contact max. 250 V Operating voltage DC per power contact max. 250 V Operating voltage DC per power contact max. 250 V Operating voltage power contact max. 250 V Operating voltage power contacts 4 kV Attacting group (IEC 60529) IP65, IP67 Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage power contacts 2 kV Material group (IEC 60664-1) I  Mechanical data   Material data Coating locking nickel plated Material gasket FKM Material housing PUR Locking material Brass Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic Operating temperature min. 25 °C Operating temperature max. 85 °C Operating temperature max. 85 °C Additional condition temperature max. 85 °C Additional condition temperature max. 85 °C Operating temperature max. 85	ECLASS-12.0	27060327
GTIN 4048879711289 Packaign unit 1  Electrical data   Supply Operating voltage AC per power contact max 500 V Operating voltage AC per signal contact max 500 V Operating voltage AC per signal contact max 500 V Operating voltage DC per signal contact max 500 V Operating voltage DC per signal contact max 500 V Operating voltage DC per signal contact max 500 V Operating voltage DC per signal contact max 500 V Operating voltage DC per signal contact max 500 V Operating voltage DC per signal contact max 500 V Operating voltage DC per signal contact max 500 V Operating voltage signal sortact max 500 V Operating voltage power contacts 4kV Rated surge voltage signal contacts 2kV Material group (IEC 60664-1) 1  Material group (IEC 60664-1) 1  Material group (IEC 60664-1) 1  Material gasket FKM Material housing PUR Coating locking material Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C Operating temperature max 85 °C Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable    Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable    Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	ETIM-5.0	EC000830
Packaging unit I  Electrical data   Supply Operating voltage AC per spowr contact max. 600 V Operating voltage AC per signal contact max. 600 V Operating voltage DC per signal contact max. 600 V Operating voltage DC per signal contact max. 600 V Operating voltage DC per signal contact max. 600 V Operating voltage DC per signal contact max. 600 V Operating voltage DC per signal contact max. 600 V Operating voltage DC per signal contact max. 600 V Operating voltage DC per signal contact max. 600 V Operating voltage DC per signal contact max. 600 V Operating to protection [EN IEC 60529] IP65, IP67 Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage power contacts 4 kV Raterial group (IEC 60664-1) I  Mechanical data   Material data  Coating locking nickel plated Material pounting locking nickel plated Material gasket FKM Material gasket FKM Material gasket PUB Locking material Brass  Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic Operating temperature max. 85 °C Operating temperature max. 85 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable Cable identification	customs tariff number	85444290
Electrical data   Supply Operating voltage AC per power contact max. Operating voltage AC per signal contact max. Sol V Operating voltage DC per power contact max. Sol V Operating voltage DC per power contact max. Sol V Operating voltage DC per power contact max. Sol V Operating voltage DC per power contact max. Sol V Operating voltage DC per signal contact max. Sol V Operating voltage DC per signal contact max. Sol V Operating voltage DC per signal contact max. Sol V Operating voltage DC per signal contact max. Sol V Operating voltage DC per signal contact max. Sol V Operating voltage Signal contact max. Sol V Operating voltage Signal contacts Sol V Operating voltage Signal contacts Sol V Operating voltage Signal contacts Sol V Operating to public Sol	GTIN	4048879711289
Operating voltage AC per power contact max. Operating voltage AC per signal contact max. Operating voltage DC per signal contact max. Operating voltage DC per power contact max. Operating voltage DC per signal contact max. Operating voltage power contacts  A kV Operating voltage power contacts A kV Operating voltage power contacts A kV Operating voltage signal contacts A kV Operating toxing protection (EN IEC 60529)  I I I I I I I I I I I I I I I I I I I	Packaging unit	1
Operating voltage AC per signal contact max. 250 V Operating voltage DC per power contact max. 600 V Operating voltage DC per signal contact max. 250 V  Device protection   Electrical  Degree of protection (EN IEC 60529) IP65, IP67 Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage power contacts 4 kV Rated surge voltage signal contacts 2 kV Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking nickel plated Material pasket FKM Material housing PUR Locking material Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Environmental characteristics   Climatic  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Final late of the connector of the permissible conting and the permissible conting forces.	Electrical data   Supply	
Operating voltage AC per signal contact max. 250 V Operating voltage DC per power contact max. 600 V Operating voltage DC per signal contact max. 250 V  Device protection   Electrical  Degree of protection (EN IEC 60529) IP65, IP67 Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage power contacts 4 kV Rated surge voltage signal contacts 2 kV Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking nickel plated Material pasket FKM Material housing PUR Locking material Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Environmental characteristics   Climatic  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Final late of the connector of the permissible conting and the permissible conting forces.	Operating voltage AC per power contact max.	600 V
Operating voltage DC per power contact max. 500 V Operating voltage DC per signal contact max. 250 V  Device protection   Electrical Degree of protection (EN IEC 60529)   IP65, IP67 Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage power contacts 4 kV Rated surge voltage signal contacts 2 kV Material group (IEC 60664-1)   I  Mechanical data   Material data Coating locking nickel plated Material gasket FKM Material housing PUR Locking material Brass Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics   Climatic Operating temperature min. 25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality Important installation notes Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable Cable identification 833 Function cable Hybrid, Signal, Power Jacket Color orange		
Departing voltage DC per signal contact max.   250 V		
Degree of protection   Electrical  Degree of protection (EN IEC 60529)   IP65, IP67   Additional condition protection degree   inserted, screwed   Pollution Degree   3   Rated surge voltage power contacts   4 kV   Rated surge voltage signal contacts   2 kV   Material group (IEC 60664-1)   I    Mechanical data   Material data   Coating locking   nickel plated   Material gasket   FKM   Material pushing   PUR   Locking material   Brass   Mechanical data   Mounting data   Mounting method   inserted, screwed, Shaking protection   Environmental characteristics   Climatic   Operating temperature min.   -25 °C   Operating temperature max.   85 °C   Additional condition temperature range   depending on cable quality   Important installation notes   Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable   Cable identification   833   Function cable   Hybrid, Signal, Power   Jacket Color   orange		250 V
Degree of protection (EN IEC 60529) IP65, IP67 Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage power contacts 4 kV Material group (IEC 60664-1) 1  Mechanical data   Material data Coating locking nickel plated Material gasket FKM Material pasket FKM Material housing PUR Locking material Brass  Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable   Hybrid, Signal, Power   Jacket Color orange		
Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage power contacts 4 kV  Rated surge voltage signal contacts 2 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking nickel plated  Material gasket FKM  Material housing PUR  Locking material Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Coperating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable    Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color orange		IP65 IP67
Pollution Degree 3 Rated surge voltage power contacts 4 kV Rated surge voltage signal contacts 2 kV Material group (IEC 60664-1) 1  Mechanical data   Material data  Coating locking nickel plated Material gasket FKM Material housing PUR Locking material Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power Jacket Color orange		· · · · · · · · · · · · · · · · · · ·
Rated surge voltage power contacts 4 kV Rated surge voltage signal contacts 2 kV Material group (IEC 60664-1) 1  Mechanical data   Material data Coating locking nickel plated Material gasket FKM Material housing PUR Locking material Brass  Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power Jacket Color		· · · · · · · · · · · · · · · · · · ·
Rated surge voltage signal contacts 2 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking nickel plated  Material gasket FKM  Material housing PUR  Locking material Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color		
Material group (IEC 60664-1)  Mechanical data   Material data  Coating locking nickel plated  Material gasket FKM  Material housing PUR  Locking material Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color		2 kV
Coating locking nickel plated  Material gasket FKM  Material housing PUR  Locking material Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color orange		I
Coating locking nickel plated  Material gasket FKM  Material housing PUR  Locking material Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color orange	Mechanical data   Material data	
Material gasket FKM  Material housing PUR  Locking material Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color orange	•	nickel plated
Material housing PUR Locking material Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jackt Color		· · · · · · · · · · · · · · · · · · ·
Brass		
Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color orange		
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color orange		
Environmental characteristics   Climatic  Operating temperature min.  -25 °C  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color orange		inserted assessed Challies austration
Operating temperature min.  -25 °C  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color orange		inserted, screwed, Snaking protection
Operating temperature max.  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color orange	Environmental characteristics   Climatic	
Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color orange		
Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color orange		
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 833  Function cable  Hybrid, Signal, Power  Jacket Color  orange	Additional condition temperature range	depending on cable quality
Note on bending radius  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification  833  Function cable  Hybrid, Signal, Power  Jacket Color  orange	Important installation notes	
Installation   Cable  Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color orange	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Cable identification 833  Function cable Hybrid, Signal, Power  Jacket Color orange	Note on bending radius	
Function cable Hybrid, Signal, Power  Jacket Color orange	Installation   Cable	
Function cable Hybrid, Signal, Power  Jacket Color orange	Cable identification	833
Jacket Color orange		
Type of Certificate cURus	Jacket Color	
	Type of Certificate	cURus

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-21



stay connected

A mount atranding	
Amount stranding	1
Stranding  Amount stranding (type 2)	2 wires with Filler twisted
Amount stranding (type 2)	1
Stranding (type 2)	4 wires with Filler around Stranding combination twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Pair shielding (type)	copper braid, tinned
Banding	Fiber tape, Fleece, Foil
Filler	yes
wire arrangement	black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)
Cable weigth	311,3 g/m
Material jacket	TMPU
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	13 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	TPM
Amount wires	2
Outer diameter insulation	2,4 mm
Outer diameter tolerance core insulation	±5%
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	84
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	1,5 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Material wire insulation (Power)	TPM
Outer diameter wire insulation (Power)	3,1 mm
Tolerance outer diameter wire insulation (Power)	±5 %
Ingredient freeness wire insulation (Power)	lead-free, CFC-free, halogen-free, silicone-free
Printing colour wire insulation (Power)	white (isolation black)
Amount wires (Power)	4
Amount strands wire (Power)	140
Diameter of single wires (Power)	0,15 mm
Wire conductor cross section (Power)	2,5 mm²
Material conductor wire (Power)	Stranded copper wire, bare
Conductor type wire (Power)	strand class 6
Max. rated voltage (conductor - conductor)	1000 V
Max. rated voltage (conductor - ground)	600 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12,6 A
Current carrying capacity min. wire (Power)	18,2 A
Electrical resistance line constant wire	13,7 Ω/km @ 20 °C
Electrical resistance coating wire (Power)	8 Ω/km @20 °C
AC withstand voltage (wire - wire)	4 kV @ 300 s
Electrical capacity line constant (wire - wire)	90000 pF/km
Electrical capacity line constant (wire - shield)	160000 pF/km
Power frequency withstand voltage (wire - jacket)	4 kV @ 300 s
AC withstand voltage (wire - shield)	4 kV @ 300 s
Isolation resistance	2500 MΩ × km
Electrical capacity line constant (wire - shield) (power)	200000 pF/km
Electrical capacity line constant (wire - wire) (power)	120000 pF/km
<u>-                                    </u>	



AC withstand voltage power (wire - shield)	4 kV @ 300 s
Power frequency withstand voltage power (wire - jacket)	4 kV @ 300 s
AC withstand voltage power (wire - wire)	4 kV @ 300 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	80 °C
Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	4 x Outer diameter
Bending radius (dynamic)	7,5 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	50 m @ 25 °C   horizontal
Travel speed (C-track)	5 m/s @ 25 °C
Torsion stress	± 30 °/m