

### DEUTSCH | DEUTSCH DRC

TE Internal #: DRC16-70SA

Housing for Female Terminals, Wire-to-Wire, 70 Position, .216 in [5.49 mm] Centerline, Sealable, Black, Wire & Cable, Power &

Signal, DEUTSCH DRC

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Connector & Housing Type: Housing for Female Terminals

Mating Pin Diameter: 1.59 mm [ .063 in ]

Connector System: Wire-to-Wire

Number of Positions: 70

Centerline (Pitch): 5.49 mm [.216 in]

### All DEUTSCH DRC HOUSINGS (112)

### **Features**

### **Product Type Features**

1 Toduct Type Features	
Connector & Housing Shape	Rectangular
Connector & Housing Type	Housing for Female Terminals
Connector System	Wire-to-Wire
Sealable	Yes
Hybrid Connector	No
Primary Locking Feature	Contact Retainer
Connector & Contact Terminates To	Wire & Cable
Configuration Features	
Blank Cavity Position	0
Number of Positions	70
Number of Rows	5
Electrical Characteristics	
Operating Voltage	250 VAC
Nominal Voltage Architecture	12 V, 24 V, 48 V
Body Features	
Cable Exit Angle	180°

PPS GF

**Body Material** 



Contact Size Contact Type Socket Maring Pin Diameter Contact Current Rating (Max) Mechanical Attachment Mounting Feature Mounting Feature Mounting Feature Mounting Pin Diameter Mounting Feature Mounting Position Assurance No Strain Relief Add By Accessory Maring Alignment Type Mechanical Attachment With Connector Mounting Type Cable Mount (Free-Hanging) Mounting Features Centerline (Pitch) S49 mm(216 in)  Dimensions Product Length 103.99 mm(4.094 in) Product Length 11.73 mm(1.643 in) Product Length Product Length 12.49 mm(216 in)  Sage Conditions Operating Temperature (Max) 125 "C(257 "F) Operating Temperature Range Operating Temperature Range Operating Temperature Range Operating Temperature Range Operating Maxing Power & Signal  Agency/Standard SAE J2030 Degree of Protection UL Flammability Rating 20mm Flame Test per Standard UL 94		
Contact Features         Size 16           Contact Type         Socket           Matting Pin Dameter         1.59 mm[,063 in]           Contact Current Rating (Max)         13 A           Mechanical Attachment         Without           Mounting Feature         Without           Terminal Position Assurance         No           Strain Relief         Add By Accessory           Mating Alignment Type         Keyed           Mating Alignment Type         Keyed           Mounting Type         Cable Mount (Free-Hanging)           Housing Features         Centerline (Firch)           Dimensions         S.49 mm[,216 in]           Product Length         41.73 mm[1,643 in]           Product Length         41.73 mm[1,643 in]           Product Length         36.06 mm[,216 in]           Base Conditions         125 *C[257 *F]           Operating Temperature (Max)         125 *C[257 *F]           Operating Temperature Range         55 - 125 *C[-67 - 257 *F]           Operating Temperature Range         55 - 125 *C[-67 - 257 *F]           Operating Temperature Range         SAE J2030           Operating Temperature Range         SAE J2030           Operating Temperature Range         SAE J2030           Operating Tem	Primary Product Color	Black
Contact Size Contact Type Socket Maring Pin Diameter Contact Current Rating (Max) Mechanical Attachment Mounting Feature Mounting Feature Mounting Feature Mounting Pin Diameter Mounting Feature Mounting Position Assurance No Strain Relief Add By Accessory Maring Alignment Type Mechanical Attachment With Connector Mounting Type Cable Mount (Free-Hanging) Mounting Features Centerline (Pitch) S49 mm(216 in)  Dimensions Product Length 103.99 mm(4.094 in) Product Length 11.73 mm(1.643 in) Product Length Product Length 12.49 mm(216 in)  Sage Conditions Operating Temperature (Max) 125 "C(257 "F) Operating Temperature Range Operating Temperature Range Operating Temperature Range Operating Temperature Range Operating Maxing Power & Signal  Agency/Standard SAE J2030 Degree of Protection UL Flammability Rating 20mm Flame Test per Standard UL 94	Connector Code	A
Contact Type  Mating Pin Diameter  Contact Current Rating (Max)  Mechanical Attachment  Mounting Feature  Mounting Feature  Mounting Position Assurance  Mounting Alignment Type  Mounting Alignment  Connector Mounting Type  Mousing Features  Centerline (Pitch)  Centerline (Pitch)  Connector Mounting Position  Product Length  41.73 mm(1.643 in)  Product Length  41.73 mm(1.643 in)  Product Height  Row to Row Spacing  Sage Conditions  Operating Temperature (Max)  Operating Temperature (Range  Operation/Application  Circuit Application  Circuit Application  Circuit Application  Posere of Protection  Degree of Protection  Li Jammsbillty Rating  South Rating  1988 (P6K9K  Li Jammsbillty Rating)  South Contact Length Sale (P6K9K)  Agency/Standard UL-94  Degree of Protection  Li Jammsbillty Rating  South Current Rating South Filame Test per Standard UL-94  South Canada Sale (P6K9K)  South Contact Current Rating South Filame Test per Standard UL-94  South Filame Test per Standard UL-94	Contact Features	
Mating Pin Diameter 1.59 mml,063 in]  Contact Current Rating (Max) 13 A  Alechanical Attachment  Mounting Feature Without  Terminal Position Assurance No  Strain Relief Add By Accessory  Mating Alignment Type Keyed  Mating Alignment Type Cable Mount (Free-Hanging)  Housing Features  Connector Mounting Type Cable Mount (Free-Hanging)  Housing Features  Centerline (Pitch) 5.49 mm(.216 in]  Dimensions  Product Width 103.99 mm(4.094 in)  Product Length 41.73 mm[1.643 in]  Product Height 36.06 mm[1.421 in]  Row-to-Row Spacing 5.49 mm[.216 in]  Sage Conditions  Operating Temperature (Max) 125 "C[.257 "T]  Operating Temperature (Max) 125 "C[.257 "T]  Operating Temperature Range 5.55 = 125 "C[.67 - 257 "T]  Operation/Application  Circuit Application Power & Signal  Industry Standards  Agency/Standard SAF J2030  Degree of Protection IP68, IP6K9K  UI Flammability Rating 20mm Flame Test per Standard UI-94	Contact Size	Size 16
Contact Current Rating (Max)  Mechanical Attachment  Mounting Feature  Mounting Feature  Mounting Position Assurance  No  Strain Relief  Add By Accessory  Mating Alignment Type  Mating Alignment  Connector Mounting Type  Mousing Features  Centerline (Pitch)  Connector Mounting Type  Mounting Position Assurance  Centerline (Pitch)  Connector Mounting Type  Mousing Features  Centerline (Pitch)  Connector Mounting Type  Mousing Features  Centerline (Pitch)  Connector Mounting Type  Mounting Position Mounting Type  Mounting Features  Centerline (Pitch)  Connector Mounting Type  Mounting Position Mounting Type  Mounting Features  Centerline (Pitch)  Connector Mounting Type  Mounting Features  Connector Mounting Type  Mounting Features  Mounting Features  Mounting Features  Agen Conditions  Circuit Application  Circuit Application  Moustry Standards  Agency/Standard  Degree of Protection  Ut Hammability Rating  20mm Flame Fest per Standard UL-94	Contact Type	Socket
Mounting Feature Without Terminal Position Assurance No Strain Relief Add By Accessory Mating Alignment Type Keyed Mating Alignment Quite Mount (Free Hanging) Mounting Features Connector Mounting Type Housing Features Centerline (Pitch) 5.49 mml, 216 in   Dimensions Product Width 103.99 mm[4.094 in   Product Length 41.73 mm[1.643 in ] Product Height 36.06 mm[1.421 in ] Row-to-Row Spacing 54.99 mm[.216 in   Degrating Temperature (Max) 125 °C[-67 - 257 °F] Operating Temperature Range 55.5 – 125 °C[-67 - 257 °F] Operating Temperature Range 75.5 – 125 °C[-67 - 257 °F] Operation/Application Circuit Application Power & Signal Industry Standards Agency/Standard SAE J2030 Degree of Protection IP68, IP6698 UI Flammability Rating 20mm Flame Test per Standard UI-94	Mating Pin Diameter	1.59 mm[.063 in]
Mounting Feature Terminal Position Assurance Strain Relief Add By Accessory Mating Alignment Type Mating Alignment With Connector Mounting Type Coble Mount (Free Hanging) Housing Features Centerline (Pitch) Stay mm[216 in] Connector Width Dimensions Product Length H173 mm]1.643 in] Product Length A1.73 mm]1.643 in] Product Height Row-to-Row Spacing Stage Conditions Coperating Temperature (Max) Coperating Temperature Range Coperating Temperature Range Coperation/Application Circuit Application Circuit	Contact Current Rating (Max)	13 A
Strain Relief Add By Accessory  Mating Alignment Type Keyed  Mating Alignment With  Connector Mounting Type Cable Mount (Free-Hanging)  Housing Features  Centerline (Pitch) 5.49 mm[216 in]  Dimensions  Product Width 103.99 mm[4.094 in]  Product Length 11.73 mm[1.643 in]  Product Height 36.06 mm[1.421 in]  Row-to-Row Spacing 5.49 mm[.216 in]  Deparating Temperature (Max) 125 °C[257 °F]  Operating Temperature Range 5.55 – 125 °C[-67 – 257 °F]  Operating Temperature Range 7.55 – 125 °C[-67 – 257 °F]  Operating Temperature Range 7.55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application Power & Signal  Industry Standard SAE J2030  Degree of Protection IP68, IP669K  UL Flammability Rating 20mm Flame Test per Standard UL-94	Mechanical Attachment	
Strain Relief Add By Accessory  Mating Alignment Type Keyed  Mating Alignment With  Connector Mounting Type Cable Mount (Free Hanging)  Housing Features  Centerline (Pitch) 5.49 mm[.216 in]  Dimensions  Product Width 103.99 mm[4.094 in]  Product Length 41.73 mm[1.643 in]  Product Height 36.06 mm[1.421 in]  Row-to-Row Spacing 5.49 mm[.216 in]  Usage Conditions  Operating Temperature (Max) 125 °C[257 °F]  Operating Temperature Range 5.5 - 125 °C[-67 - 257 °F]  Operating Temperature Range 7.55 - 125 °C[-67 - 257 °F]  Operating Temperature Range 8.55 - 125 °C[-67 - 257 °F]  Operating Temperature Range 9.55 - 125 °C[-6	Mounting Feature	Without
Mating Alignment Type Mating Alignment  Connector Mounting Type  Cable Mount (Free Hanging)  Conterline (Pitch)  Conterline (Pitch)  Connector Width  Product Width  Product Length  Product Length  As a 6.06 mm[1.421 in]  Row-to-Row Spacing  Congrating Temperature (Max)  Coperating Temperature Range  Coper	Terminal Position Assurance	No
Mating Alignment Connector Mounting Type Conterline (Pitch) Conterline	Strain Relief	Add By Accessory
Connector Mounting Type  Cable Mount (Free-Hanging)  Housing Features  Centerline (Pitch)  5.49 mm[.216 in]  Froduct Width  103.99 mm[4.094 in]  Product Length  41.73 mm[1.643 in]  Product Height  8.006 mm[1.421 in]  Row-to-Row Spacing  Jage Conditions  Operating Temperature (Max)  Operating Temperature Range  Operation/Application  Circuit Application  Power & Signal  Agency/Standard  SAE J2030  Degree of Protection  UL Flammability Rating  20mm Flame Test per Standard UL 94	Mating Alignment Type	Keyed
Centerline (Pitch) Centerline (Pitch) Conterline (Pitch) Conterline (Pitch) Conterline (Pitch) Conterline (Pitch) Conterline (Pitch) Conterline (Pitch) Contensions  Product Width 103.99 mm[4.094 in] Product Length 41.73 mm[1.643 in] Annual (A43 in) Annual (A421	Mating Alignment	With
Centerline (Pitch) Cimensions  Product Width Product Length Product Height Row-to-Row Spacing  Operating Temperature (Max) Circuit Application  Circuit Application  Agency/Standard Agency/Standard Degree of Protection  Disage Conterline (Pitch)  5.49 mm[.216 in]  41.73 mm[1.643 in] 41.73 mm[1.643	Connector Mounting Type	Cable Mount (Free-Hanging)
Product Width 103.99 mm[4.094 in] Product Length 41.73 mm[1.643 in] Product Height 36.06 mm[1.421 in] Row-to-Row Spacing 5.49 mm[.216 in]  Poperating Temperature (Max) 125 °C[257 °F] Operating Temperature Range -55 – 125 °C[-67 – 257 °F]  Operating Temperature Range Power & Signal  Circuit Application Power & Signal  Industry Standards  Agency/Standard SAE J2030  Degree of Protection IP68, IP6K9K  UL Flammability Rating 20mm Flame Test per Standard UL-94	Housing Features	
Product Width 103.99 mm[4.094 in] Product Length 41.73 mm[1.643 in] Product Height 36.06 mm[1.421 in] Row-to-Row Spacing 5.49 mm[.216 in]  Product Height 125 °C[257 °F]  Operating Temperature (Max) 125 °C[257 °F]  Operating Temperature Range 555 – 125 °C[-67 – 257 °F]  Operation/Application Power & Signal 104.55 *C[-67 – 257 °F]  Agency/Standard SAE J2030  Degree of Protection IP68, IP6K9K  UL Flammability Rating 20mm Flame Test per Standard UL-94	Centerline (Pitch)	5.49 mm[.216 in]
Product Length 41.73 mm[1.643 in]  Product Height 36.06 mm[1.421 in]  Row-to-Row Spacing 5.49 mm[.216 in]  Degrating Temperature (Max) 125 °C[257 °F]  Operating Temperature Range -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application Power & Signal  Agency/Standard SAE J2030  Degree of Protection IP68, IP6K9K  UL Flammability Rating 20mm Flame Test per Standard UL-94	Dimensions	
Product Height 36.06 mm[1.421 in]  Row-to-Row Spacing 5.49 mm[.216 in]  Descriptions  Operating Temperature (Max) 125 °C[257 °F]  Operating Temperature Range -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application Power & Signal  Industry Standards  Agency/Standard SAE J2030  Degree of Protection IP68, IP6K9K  UL Flammability Rating 20mm Flame Test per Standard UL-94	Product Width	103.99 mm[4.094 in]
Row-to-Row Spacing  Jesage Conditions  Operating Temperature (Max)  Operating Temperature Range  Operation/Application  Circuit Application  Power & Signal  Agency/Standards  Agency/Standard  Degree of Protection  UL Flammability Rating  5.49 mm[.216 in]  Fower[.216 in]  S49 mm[.216 in]  Fower[.216 in]  S49 mm[.216 in]  S40 mm[	Product Length	41.73 mm[1.643 in]
Operating Temperature (Max)  Operating Temperature Range  Operation/Application  Circuit Application  Power & Signal  Agency/Standards  Agency/Standard  Degree of Protection  UL Flammability Rating  125 °C[257 °F]  -55 – 125 °C[-67 – 257 °F]  Power & Signal  Power & Signal  1P68, IP6K9K  20mm Flame Test per Standard UL-94	Product Height	36.06 mm[1.421 in]
Operating Temperature (Max)  Operating Temperature Range  -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application  Power & Signal  Agency/Standards  Agency/Standard  Degree of Protection  IP68, IP6K9K  UL Flammability Rating  125 °C[257 °F]  -55 – 125 °C[-67 – 257 °F]  -60 – 125 °C[-67 – 257 °F	Row-to-Row Spacing	5.49 mm[.216 in]
Operating Temperature Range  -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application  Power & Signal  Industry Standards  Agency/Standard  SAE J2030  Degree of Protection  UL Flammability Rating  20mm Flame Test per Standard UL-94	Usage Conditions	
Degree of Protection  Degree of Protection  UL Flammability Rating  Degree of Protection	Operating Temperature (Max)	125 °C[257 °F]
Circuit Application Power & Signal  ndustry Standards  Agency/Standard SAE J2030  Degree of Protection IP68, IP6K9K  UL Flammability Rating 20mm Flame Test per Standard UL-94	Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]
Agency/Standard SAE J2030  Degree of Protection IP68, IP6K9K  UL Flammability Rating 20mm Flame Test per Standard UL-94	Operation/Application	
Agency/Standard SAE J2030  Degree of Protection IP68, IP6K9K  UL Flammability Rating 20mm Flame Test per Standard UL-94	Circuit Application	Power & Signal
Degree of Protection  UL Flammability Rating  20mm Flame Test per Standard UL-94	Industry Standards	
UL Flammability Rating  20mm Flame Test per Standard UL-94	Agency/Standard	SAE J2030
	Degree of Protection	IP68, IP6K9K
Packaging Features	UL Flammability Rating	20mm Flame Test per Standard UL-94
	Packaging Features	



Packaging Quantity	50
Packaging Method	Box
Other	
Serviceable	Yes
Connector Position Assurance Capable	No

### **Product Compliance**

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JAN 2022 (223) SVHC > Threshold: Not Yet Reviewed
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
Solder Process Capability	Not reviewed for solder process capability

### Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach

# Compatible Parts





TE Part # CAT-D48-SP729 DEUTSCH SEALING PLUGS



TE Part # 0411-291-1405 EXT TOOL, SIZE 16, 14-16 AWG, N,



TE Part # 0411-204-1605 EXT TOOL, SIZE 16, 16-18 AWG, N, DRK BLU



TE Part # CAT-D799-H342 DEUTSCH DRC HEADERS



TE Part # CAT-D799-CH8172 DEUTSCH DRC HOUSINGS



TE Part # CAT-D48-SFT273 DEUTSCH STAMPED & FORMED CONTACTS



TE Part # CAT-D48-ST273 DEUTSCH SOLID CONTACTS



TE Part # CAT-D799-B128 DEUTSCH DRC BACKSHELLS



TE Part # DRC70-BT BOOT, 70P, 16SZ, PLG/REC, ST, BLK

TE Part # 0515-006-7005 PROTECT CVR, 70P, PLG, WHT, DRC16 TE Part # 0515-031-7005 WIRE ROUTER, 70P, BLK, PLG

# Also in the Series | DEUTSCH DRC



Automotive Connector Caps & Covers



Automotive Housings(112)



Insertion & Extraction Tools(7)



PCB Headers & Receptacles(41)

# Customers Also Bought





TE Part #1-1863003-2 UMNL 9WAY PLUG HOUSING













TE Part #0528-006-7005 BKSHL, 70P, BLK, PLG, ST, SIDEAB, NW 26

### **Documents**

## **Product Drawings**

PLG, 70P, BLK, N, A

English

#### **CAD Files**

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_DRC16-70SA\_B.2d\_dxf.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_DRC16-70SA\_B.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_DRC16-70SA\_B.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

## Datasheets & Catalog Pages

ICT Terminals and Connectors Catalogue

English

## **Product Specifications**

**Engineering Report** 

English

### Agency Approvals

**UL Report** 

English