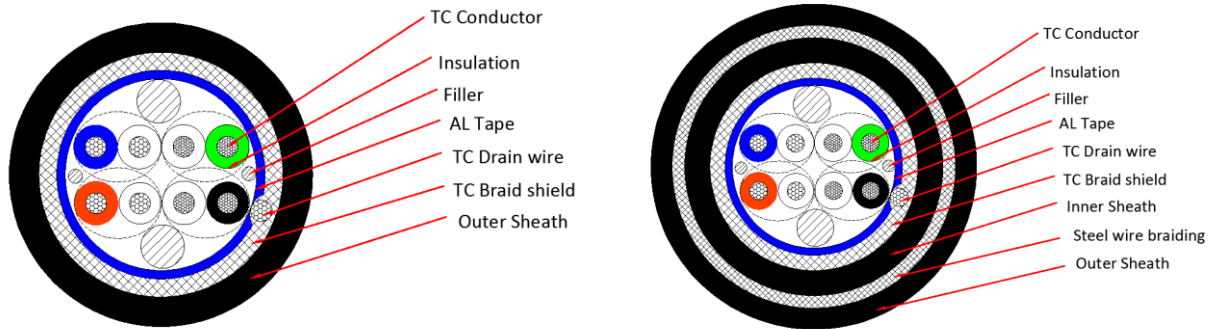


## Draka RS485 22AWG FPE Cable



- not to scale -

### Application

For multi-dropped, medium-speed, serial data communication in electrically noisy industrial environments. Application includes industrial networks using RS-485 / RS-422 / RS-232 transceivers, RS-422 systems for Process Automation (chemicals, brewing, paper mills), factory automation (autos, metal fabrication), HVAC, security, motor control and motion control.

### Standards

EIA/TIA RS-485  
 LSZH: IEC60332-1; IEC 60754-1 & 2; IEC 61034-2  
 PVC: IEC60332-1

### Construction

Conductor	Stranded Tinned Copper, 22AWG, Diameter 7 x 0.254mm	Ø0.76mm			
Insulation	Foam PE	Ø2.20 ± 0.20mm			
1 <sup>st</sup> screen	1 x AL-Mylar Wrap	Overlapping ≥ 25 %			
Drain wire	7/0.254mm Stranded Tinned Copper				
Braid shield	Tinned Copper	Coverage ≥ 85%			
Sheath	PVC / LSZH / LSZH ATARUV				
Amour (optional)	Steel Wire Braiding	Ø0.20mm			
Outer sheath (optional)	LSZH / LSZH ATARUV				
Nom. Cable OD mm		1P	2P	3P	4P
	TC/FPE/OS/TCWB/PVC	6.50	9.00	9.50	11.50
	TC/FPE/OS/TCWB/LSZH	6.50	9.00	9.50	11.50
	TC/FPE/OS/TCWB/LSZH ATARUV	6.50	9.00	9.50	11.50
	TC/FPE/OS/TCWB/LSZH/SWB/LSZH	10.80	13.40	13.80	15.80
	TC/FPE/OS/TCWB/LSZH/SWB/LSZH ATARUV	10.80	13.40	13.80	15.80

Nom. Cable weight kg/km		1P	2P	3P	4P
	TC/FPE/OS/TCWB/PVC	66	90	114	140
	TC/FPE/OS/TCWB/LSZH	66	90	114	140
	TC/FPE/OS/TCWB/LSZH ATARUV	66	90	114	140
	TC/FPE/OS/TCWB/LSZH/SWB/LSZH	170	230	290	340
	TC/FPE/OS/TCWB/LSZH/SWB/LSZH ATARUV	170	230	290	340
Pair colour		White & Orange	White & Orange White & Blue	White & Orange White & Blue White & Black	White & Orange White & Blue White & Black White & Green
Cable colour	PVC (Grey), LSZH / LSZH ATARUV (Black)				

## Mechanical Properties

Rated temperature	80 °C
Bend radius	10 x D
Operating temperature range:	-20 °C to 70 °C

## Electrical Properties

at 20 °C

Conductor resistance (at 20 ± 5 °C)	≤ 58 Ω/km
Capacitance conductor to conductor	Nom. 12.50 pF/ft
Capacitance Cond. to other Conductor & Shield	Nom. 23 pF/ft
Impedance	Nom. 120 Ω
Max. operation voltage	300V 30V (UL AWM 2919)

## Ordering Information

UC Part Number	SAP1C	Description	P.U
48122FGY-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/PVC 1 PAIR 22AWG GREY	500m/reel
48122FLBK-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH 1 PAIR 22AWG BLACK	500m/reel
48122FLRTVBK-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH ATARUV 1 PAIR 22AWG BLACK	500m/reel

48122FLBBK-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH/SWB/LSZH 1 PAIR 22AWG BLACK	500m/reel
48122FLBRTVBK-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH/SWB/LSZH ATARUV 1 PAIR 22AWG BLACK	500m/reel
48222FGY-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/PVC 2 PAIR 22AWG GREY	500m/reel
48222FLBK-5H	60093849	RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH 2 PAIR 22AWG BLACK	500m/reel
48222FLRTVBK-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH ATARUV 2 PAIR 22AWG BLACK	500m/reel
48222FLBBK-5H	60093848	RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH/SWB/LSZH 2 PAIR 22AWG BLACK	500m/reel
48222FLBRTVBK-5H	60093926	RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH/SWB/LSZH ATARUV 2 PAIR 22AWG BLACK	500m/reel
48322FGY-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/PVC 3 PAIR 22AWG GREY	500m/reel
48322FLBK-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH 3 PAIR 22AWG BLACK	500m/reel
48322FLRTVBK-5H	60093851	RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH ATARUV 3 PAIR 22AWG BLACK	500m/reel
48322FLBBK-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH/SWB/LSZH 3 PAIR 22AWG BLACK	500m/reel
48322FLBRTVBK-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH/SWB/LSZH ATARUV 3 PAIR 22AWG BLACK	500m/reel
48422FGY-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/PVC 4 PAIR 22AWG GREY	500m/reel
48422FLBK-5H	60093850	RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH 4 PAIR 22AWG BLACK	500m/reel
48422FLRTVBK-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH ATARUV 4 PAIR 22AWG BLACK	500m/reel
48422FLBBK-5H		RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH/SWB/LSZH 4 PAIR 22AWG BLACK	500m/reel
48422FLBRTVBK-5H	60093924	RS485 DATA COMMUNICATION CABLE TC/FPE/OS/TCWB/LSZH/SWB/LSZH ATARUV 4 PAIR 22AWG BLACK	500m/reel

## Marking:

Marked in 1 meter intervals with inkjet printing as follows:

Draka MMS RS485 <Part Number> <Pair Qty>P <XX>AWG <PVC/LSZH> <FC> <BATCH CODE> <XXX>M

<XX> : Denotes conductor size in AWG

<FC> : Draka defined factory Code

<BATCHCODE> : Factory defined tracking code MM/YYYY or WW/YYYY

<XXX> : Increasing length marking by 1metre

## Logistic

### Packing:

Wooden drum with protection

### Delivery lengths:

Standard delivery length is 500m per drum  $\pm$  5%.

## Enquiries

Please contact our local sales office or email to: [mms.asia@prysmiangroup.com](mailto:mms.asia@prysmiangroup.com)

Multimedia Solutions is the data communication portfolio of Prysmian Group and comprises all the necessary portfolio of cable solutions for data communication.

Ask about UC CONNECT for a complete Structured Cabling Solutions with 25 Years System Warranty.

Visit [www.drakauc.com](http://www.drakauc.com) for more information.

---

© PRYSMIAN GROUP 2022, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.