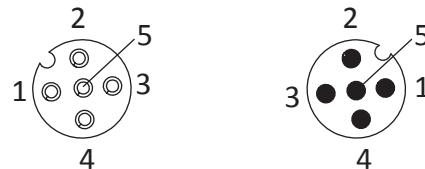


ARTICLE PROPERTIES

ARTICLE NUMBER	DND22*-MXXX
SHAPE TYPE 1	Female, M12, straight
SHAPE TYPE 2	Male, M12, straight
NUMBER OF PINS	5
INTERFACE TYPE	A



MECHANICAL DATA

LOCKING	union nut, SW13, vibration lock
MATERIAL LOCKING	Zinc die casting, nickel plated
MATERIAL GRIP	PUR
SYSTEM	moulded

ELECTRICAL DATA

OPERATING VOLTAGE	60 V DC / 60 V AC
RATED CURRENT	4,0 A
OPTICAL SHIELD COVER	≥ 85 %
SHIELDING	shielded

ENVIRONMENTAL CONDITIONS

PROTECTION CLASS	IP67 inserted and tightened
AMBIENT TEMPERATURE	-40 ... 80 °C

SUPPORT



DND22D (cable PUR violet)

APPROVALS



The information contained in this data sheet was compiled with the greatest possible care. Liability for correctness, completeness and topicality is limited to gross negligence.
Date: 10.10.23 | DS_C_DND22X_V1.1_EN

GENERAL CABLE PROPERTIES

THERMAL RESISTANCE (ONLY FOR PUR PRODUCT) according to UL FT2

PROTECTION CLASS according to IEC 60529 or ISO 20653, only when screwed together with the corresponding counterpart

CABLE LENGTHS X

All cable lengths are available on request.

EXAMPLE:
 cable lengths 0,5 m -> DND22*-M005
 cable lengths 10 m -> DND22*-M100

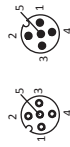
TOLERANCE CABLE LENGTHS

0 m < X ≤ 1,0 m +0,05 m
 1,0 m < X ≤ 5,0 m +0,1 m
 5,0 m < X +0,15 m

CABLE VARIANTS AND ASSIGNMENT OF WIRE INSULATION COLOR

Article number cable *	material jacket	color jacket	wire insulation	wire cross-section	cable-jacket- \varnothing	temperature range	bending cycles	Pin variant
A	PVC	grey	FPE	2x22 AWG + 2x24 AWG	7.1±0.3 mm	-20 °C ... 75 °C	no	1
D	PUR	violet	FPE+PE	2x22 AWG + 2x24 AWG	6.6±0.3 mm	-40 °C ... 80 °C	≥ 5 Million	1
E	PUR	grey	FPE+PE	2x22 AWG + 2x24 AWG	6.6±0.3 mm	-40 °C ... 80 °C	≥ 5 Million	1

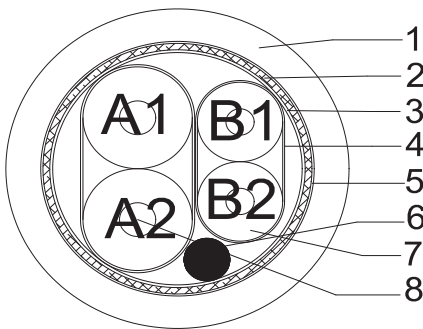
Pin variant	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
1	shield	red	black	white	blue



Description

- Rated temperature: 80°C
- Reference standard: UL 758
- Product standard certification:UL758
- Flame test: IEC 60332-1
- Stranded Tinned copper conductor
- Colour-coded PE insulation
- PUR Jacket
- Packaging: Per customer request

Product figure



1	Jacket
2	Braid
3	AL-pet-AL
4	AL-pet
5	Tape
6	Drain
7	Insulation
8	Conductor

Core colour:

A1: white A2:blue B1:Red B2:Black

Physical characteristics

Structure	Construction	1P (A)	1P(B)
Conductor	Number of cores	2	2
	AWG	24	22
	Conductor material	Stranded Tinned Copper	
	Conductor structure	30/0.10mm	42/0.10mm
	Conductor dimension nom	0.63 mm	0.75mm
Insulation	Insulation material	Foam PE	PE
	Insulation dimension	1.90±0.10mm	1.4±0.10mm
	Thickness nom	0.50mm	0.28mm
Twisting	Twisted pair	YES	YES
Shield	Primary individual shield & material	AL/Polyester	AL/Polyester
	Drain wire	19/0.16 Tinned copper	
	tape	YES	
Shield	First overall shield & material	AL/Polyester/AL	
	Secondary overall shield & material	Tinned copper braid	
	Shield coverage Nom.	80%	
	Tape	YES(Optional)	
	Outer jacket	Outer jacket material	PUR
Mechanical characteristics	Nom Thickness	0.76mm	
	Outer jacket Dia.	6.60±0.3mm	
	Outer jacket Color	Violet	
	Operating temperature range	-40 °C ~ +80 °C	
	Installing temperature range	-20 °C ~ +60 °C	
Mechanical characteristics	Outer jacket tensile strength	≥ 10.3 Mpa	
	Outer jacket elongation	≥ 100%	
	Outer jacket aging condition	113±2 °C x 168 hrs	
	After aging, Tensile strength	≥ 70% of Unaging	
	After aging, Elongation	≥ 65% of Unaging	
	Oil resistance:	IRM902, 90 °C x 24h	
	Drag chain test	S=1m,30cycles/min, R=10XOD, >=5millions	
Electrical characteristics	Max. conductor DC resistance	94.2 Ω / km (A)	59.4 Ω / km (B)
	Min insulation resistance	5000 MΩ · Km (@ 20 °C)	
	Dielectric strength	AC 1.5kv/min	
	Flame test	IEC 60332-1	
	Fitted characteristic impedance (A)	120± 15Ω (1~10MHz)	
	Voltage rating	300V	
	Mutual capacitance (core to core)	39.8pf/m @1khz nom	
	Mutual capacitance (core to shield)	78 pf/m @1khz nom	
	Attenuation (A)	<=1.85dB/100M (500KHz)	
		<=2.40 dB/100M (1MHz)	