

Armoured (GSWB) RS-485 SF/UTP Data Cable LSZH-SHF1 /MUD



Application

DNV Approved for Offshore installations, Maritime Environment, RS-485, Direct burial, Industrial communication, CAN Bus communication, Harsh Environments, Indoor & Outdoor Use, Fixed or Portable Installation.

Cable Design

Conductor	Stranded annealed tinned copper wire
Insulation	Cellular PO
Twisting	Cores twisted to pairs
No. of Pairs	1 or 2
Identification	Pair 1: Blue x White, Pair 2 : Orange x White
Foil Shield	Aluminium/polyester foil
Drain wire	Stranded annealed tinned copper wire, 24awg
Braid Shield	Annealed tinned copper wire braid
Inner Jacket	FR-LSZH SHF1
Armour	Galvanised Steel Wire Braid (GSWB)
Outer Jacket	FR-LSZH SHF-1 or XL-HFFR MUD Resistant

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Standards

Applicable Standards	SHF-1: DNV-GL certified, IEC 60092-350, IEC 60092-360, RoHS 3 2015/863/EU
	MUD Resistant: DNV-GL certified, IEC 60092-360, IEC 60811-2-1, RoHS 3 2015/863/EU, NEK TS 606
Flammability Rating	IEC 60332-1, IEC 60332-3-22, IEC 60332-3 , IEC 60754-1/2, IEC 61034-1/2

Performance

		24awg	22awg
Impedance:	Ω	120	120
Max. DC Resistance :	$\Omega/\text{km}@20^{\circ}\text{C}$	94.0	55.0
Max. Resistance Unbalance:	%	2	2
Attenuation @ 1 MHz	dB/100m	2,6	1,7
Attenuation @ 10 MHz	dB/100m	9,7	5,0
Capacitance	pF/m	38	35
Capacitance Unbalance:	pF/m max.	1,2	1,2
Velocity of Propagation:	% nom.	70	70
Dielectric Strength:	V/minute	1000	1000
Dielectric Strength to Shield:	V/minute	700	700
Voltage Rating:	V	300*	300*
Min. Bend Radius:	mm	11 x $\varnothing$	11 x $\varnothing$
Operating Temperature:	$^{\circ}\text{C}$	-30 to +75	-30 to +75
UV Resistance:		Yes	Yes
Rodent Resistance:		Yes	Yes

(*) Cable voltage rate is 300 V, however the cable is not intended to be used as power transmission cable.

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24awg Specification

Part Number	Outer Jacket Type	No. of Pairs	Conductor Stranding [mm]	Insulation Diameter [mm]	Braid Coverage [%]	Inner Jacket Diameter [mm nom.]	Overall Diameter [mm nom.]	Weight [kg/km]
AMR124-WBZF1	SHF1	1	7/0,20	1,30	80	6,0	9,5	160
AMR124-WBZFM	MUD	1	7/0,20	1,30	80	6,0	9,5	160
AMR224-WBZF1	SHF1	2	7/0,20	1,30	80	8,5	12,5	230
AMR224-WBZFM	MUD	2	7/0,20	1,30	80	8,5	12,5	230

22awg Specification

Part Number	Outer Jacket Type	No. of Pairs	Conductor Stranding [mm]	Insulation Diameter [mm]	Braid Coverage [%]	Inner Jacket Diameter [mm nom.]	Overall Diameter [mm nom.]	Weight [kg/km]
AMR122-WBZF1	SHF1	1	7/0,25	2,13	85	7,0	11,0	200
AMR122-WBZFM	MUD	1	7/0,25	2,13	85	7,0	11,0	200
AMR222-WBZF1	SHF1	2	7/0,25	2,13	85	10,5	14,5	285
AMR222-WBZFM	MUD	2	7/0,25	2,13	85	10,5	14,5	285