



<b>Profibus DP, Cable</b>			
<b>02YS(St)CHS</b>			
<b>1 x 2 x <math>\varnothing</math> 0,64 mm</b>			
<b>Blue, halogen-free, steel tape armoured cable. (Offshore installation)</b>			
<b>Design description</b>			
Lead wires	Copper-stranded uninsulated, $\varnothing = 0.64$ mm		
Wire insulation	Cell-PE (02YS) wire $\varnothing$ 2,55mm		
Wire colours	Red, green		
Braiding type	Pair stranding of wires with 2 complete core elements.		
Lapping	Polyester foil and one-sided aluminium-laminated Polyester foil, metal side facing outward.		
Overall shielding sheath	Tinned copper braid, wire $\varnothing$ 0.10mm, optical coverage $\geq 85\%$		
Sleeving	Fibre-glass fleece.		
Outer jacket	PUR (H), flame retardant, blue (RAL 5015), UL-style 20693		
Armouring	Steel wire braid, tinned, wire $\varnothing$ 0,2mm		
Outer diameter	11,5mm $\pm$ 2mm		
Halogen-free	In accordance with IEC 60754-1		
Behaviour in fire	Flame retardant as per VDE 0482 Part 265-2-1, IEC 60332-1 and VW1 (UL 1581)		
Weather-Resistance	Good		
<b>Electrical values:</b>			
Attenuation at	16 MHz	4 MHz	38.4 kHz
	< 45 dB/km	< 22 dB/km	< 5 dB/km
Impedance at	3...20 MHz		
	150 $\Omega \pm 15$		
Capacitance (wire/wire)	$\leq 30$ nF/km (800Hz)		
Wire resistance	58 $\Omega$ /km		
Operating voltage	$\leq 100$ V		
Nominal Voltage	300 v (VDE/IEC), 30V (UL)		
Test voltage	1 kV		
Insulation resistance	$\geq 100$ M ohm /km		
Temperature range (Permanent installation)	-40 $^{\circ}$ C to +80 $^{\circ}$ C		
Bending radius	15 x cabel diameter $\geq 173$ mm		

