

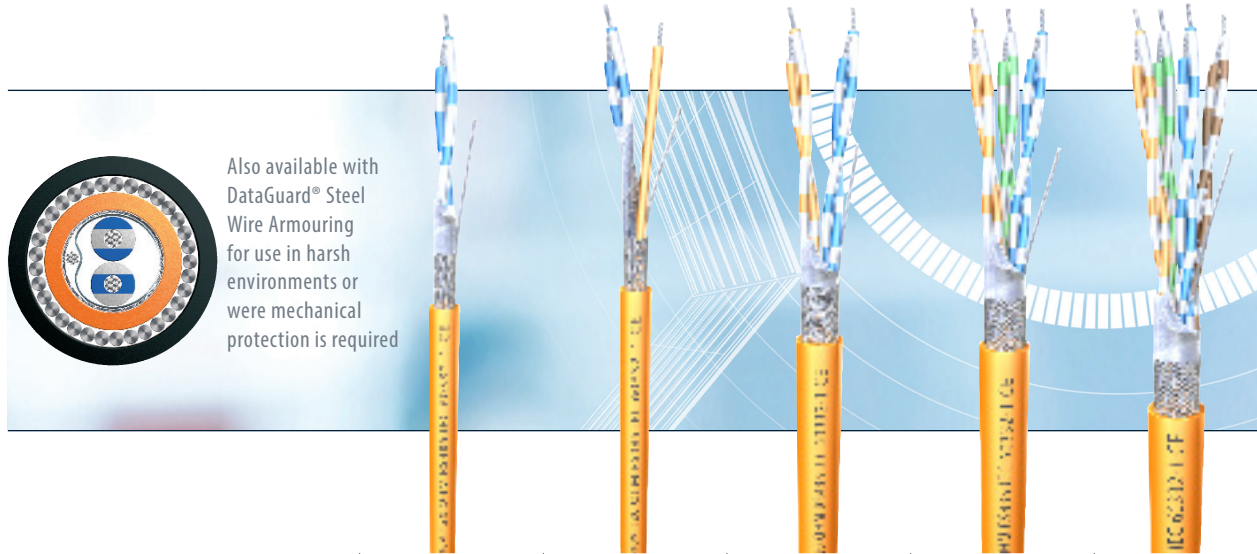
HART Highway Addressable Remote Transducer Protocol

The Hart Communication protocol was originally a digital industrial automation protocol , an early implementation of fieldbus . This system is still one of the most popular industrial protocols today . Belcom's 430Series has been designed around the HART system and has been adopted by many Belcom customers as a digital lighting control BUS , this cable range follows the same parameters as BACnet and may also be used for this platform.

The protocol was developed by Rosemount Inc. a subsidiary of Emerson Electric Company as an early communication standard in the 1980's later in that decade evolving into HART as an open protocol for their smart field instruments. From January 2015 HART Communication Foundation merged with Fieldbus Foundation to form Fieldcomm Group.



HART Cable Guide



Part Number		4301P2254	4301.5P2254	4302P2254	4303P2254	4304P2254
Physical Characteristics						
Construction		1 x 2 x 22 awg	1x2x22 + 1x22 awg	2 x 2 x 22 awg	3 x 2 x 22 awg	4 x 2 x 22 awg
Overall Diameter	mm	7,20	8,00	9,10	10,60	12,63
Weight	kg/km	65	78	108	126	143
Conductor		Stranded tinned copper (22awg)				
Insulation		Polyethylene (PE)				
Colour Code		Chart 5				
Communication Core		-	22awg TC PE insulated	-	-	-
Screen type		Overall foil				
Drain Wire		Stranded tinned copper (22awg)				
Braid		TCWB				
Braid Coverage	%	65				
Outer Jacket material		LSZH FireFighter®				
Outer Jacket Colour		Orange or Black				
Electrical Characteristics						
Shield DC Resistance	Ω/km	9,5	9,2	4,6	4,6	3,6
Conductor DC Resistance	Ω/km	48,2				
Capacitance cond./cond.	pF/m	36,1				
Capacitance cond./cond./scrn.	pF/m	65,6				
Velocity of Propagation	%	78				
Impedance	Ω	120				