



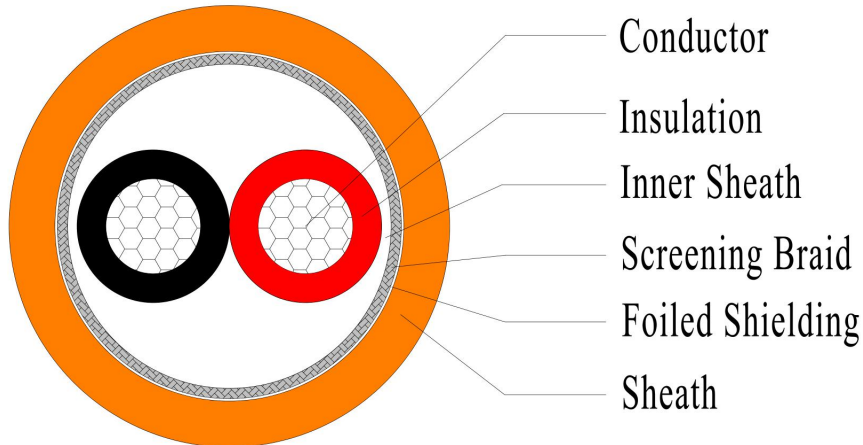
**HTDZ Part No.: HT/TF-GS042307-2019**

**SIR material HV cable for automotive applications**

**FHLR2GCB2G 2×6mm<sup>2</sup> 2×84/0.30mm/T180/600V AC**

**1. Construction**

**1.1 Cross section drawing**



**1.2 Design characterization**

**1.2.1 Conductor**

Copper wire, bare, CU ETP 1 acc. To DIN EN 13602

**1.2.2 Insulation**

SIR with properties similar to VW75210-2: Colour code: black, red

**1.2.3 Inner Sheath**

SIR with properties similar to VW75210-2: Colour code: Nature

**1.2.4 Shielding**

1. Braid of tinned copper wires,Cu ETP 1 acc.to EN 13602
2. PET/Aluminum coated foil,metal layer inwards

**1.2.5 Outer Sheath**

SIR with properties similar to VW75210-2: Colour code: Orange similar RAL 2003

**1.2.6 Marking**



### 1.3 Design data

Conductor & Insulation	Single Conductor stranding Nom. [no]. × [mm]	Single Cross section Nom. [mm <sup>2</sup> ]	Single Conductor-Φ Max.average [mm]	Wall thickness min. [mm]	Core-Φ [mm]
		84 × 0.30	6	3.12	0.32
Inner Sheath	Wall thickness min. [mm]		Outer-Φ [mm]		
	0.38		9.50 ± 0.20		
Shield	Design max. [mm]		Visual coverage min [%]		
	0.16		85		
Aluminum coated foil	PETP/Al		Overlap min 20%		
Sheath	Wall thickness min. [mm]		Outer-Φ [mm]		
	0.82		12.50 ± 0.30		

## 2. Electrical characteristics(20°C)

2.1 Conductor resistance	max. 3.14 Ohm/km
2.2 Braid shielding resistance	max. 5.0 Ohm/km
2.3 Withstand voltage	5kV(AC)
2.4 Insulation and Jacket faults	8kV(AC)
2.5 Operating voltage	600V AC/1000V DC

## 3. Mechanical characteristics

3.1 Cable weight	about. 290kg/km
3.2 Bending radius	
Fixed laying	4d
Unfixed laying	8d



**4. Thermal characteristics**

Operating temperature (3000 h)

-40°C bis/to 180°C

**5. Standards**

sim. VW60306-1、VW75210-2

**6. Package**

Packaging	Shaft core specification	Packing length (m)	Note
Wooden spool			

Designer:

Reviewer:

Approver :

Customer confirmation	<input type="checkbox"/>	Approved	<input type="checkbox"/>	Reject	<input type="checkbox"/>	Conditional Approval
Please sign or seal it and FAX the result to us						