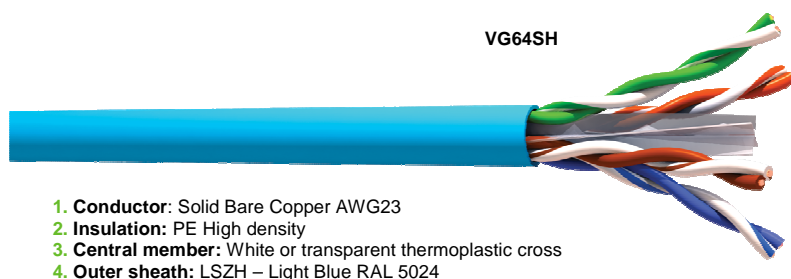


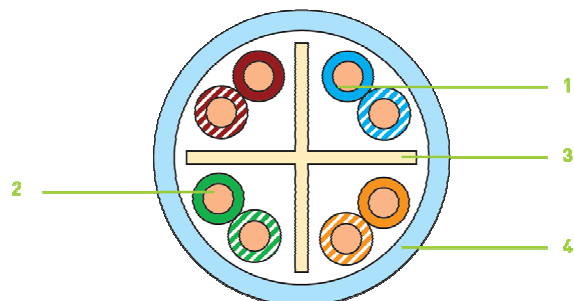
## REF : VG6xSH

100  $\Omega$  U/UTP x pairs category 6 cable – 250 MHz - LSZH



VG64SH

1. **Conductor:** Solid Bare Copper AWG23
2. **Insulation:** PE High density
3. **Central member:** White or transparent thermoplastic cross
4. **Outer sheath:** LSZH – Light Blue RAL 5024



## Application

U/UTP (Unshielded twisted pairs) cable, which is used in a horizontal or vertical configuration (Backbone), it constitutes the base of a very high bit rate V.D.I. (Voice-Data-Image) network.

Performances of this cable exceed the current standards; its use with connectors (MK6 Or BC CAT6 range) ensures conformity with Class E channel.

This cable is used for transmission of digital and analogue voice, Data and video signals. It can transmit :

- ISDN
- ETHERNET 10 Base T - *Ethernet*
- TOKEN RING 4/16 Mbits
- ETHERNET 100 Base Tx, 100 Base T4 – *Fast Ethernet*
- ETHERNET 1000 Base T – *Gigabit Ethernet*
- 100 VG-AnyLAN
- TP-PMD/TP-DDI
- ATM 155, 622Mbits/s and 1,2Gbits/s
- IEEE 802.3af – Power Over Ethernet

## Standards

<b>CABLE</b>	IEC 61156-5
<b>SYSTEM</b>	ISO 11801 Edition 2 – CLASSE E

## Electrical properties

Max. linear electrical resistance : 95 $\Omega$ / Km
Mutual capacity (nom.) : 45 pF / m
Characteristic impedance: 100 $\Omega$
Velocity of propagation : 69 %

## Other characteristics

Fire behaviour : IEC 60332-1
Operating temperature : - 20° C / + 70°C
Minimum bending radius: 8 x cable diameter
Conform to RoHS directive

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### Transmission performances @20°C

Frequency (MHZ)	ATTENUATION (dB/100m)		NEXT (dB)		PS NEXT (dB)		ELFLEX (dB/100m)		PSELFLEX (dB/100m)		RETURN LOSS (dB)	
	(*)Standard	Typical value	Standard	Typical value	Standard	Typical value	Standard	Typical value	Standard	Typical value	Standard	Typical value
<b>4</b>	3.8	<b>3.5</b>	66.3	<b>69</b>	63.3	<b>66</b>	55.8	<b>67</b>	52.8	<b>64</b>	23.0	<b>25</b>
<b>10</b>	6.0	<b>5.5</b>	60.3	<b>63</b>	57.3	<b>60</b>	47.8	<b>60</b>	44.8	<b>57</b>	25.0	<b>28</b>
<b>16</b>	7.6	<b>6.9</b>	57.2	<b>60</b>	54.2	<b>57</b>	43.7	<b>66</b>	40.7	<b>63</b>	25.0	<b>28</b>
<b>31.25</b>	10.7	<b>9.8</b>	52.9	<b>55</b>	49.9	<b>52</b>	37.9	<b>51</b>	34.9	<b>48</b>	23.6	<b>27</b>
<b>62.5</b>	15.5	<b>13.9</b>	48.4	<b>51</b>	45.4	<b>48</b>	31.9	<b>43</b>	29.1	<b>40</b>	21.5	<b>25</b>
<b>100</b>	19.9	<b>17.5</b>	45.3	<b>48</b>	42.3	<b>45</b>	27.8	<b>40</b>	24.8	<b>37</b>	20.1	<b>25</b>
<b>200</b>	29.1	<b>25.3</b>	40.8	<b>44</b>	37.8	<b>41</b>	21.8	<b>34</b>	18.8	<b>31</b>	18.0	<b>24</b>
<b>250</b>	33.0	<b>28.3</b>	39.3	<b>42</b>	36.3	<b>39</b>	19.8	<b>27</b>	16.8	<b>24</b>	17.3	<b>23</b>
<b>350</b>	NA	<b>36.2</b>	NA	<b>38</b>	NA	<b>35</b>	16.9	<b>22</b>	NA	<b>19</b>	NA	<b>21</b>

(\*)Standard: Values from IEC 61156-5.

(\*\*)NA: not applicable

### Ordering information

References	VG64SH	VG68SH
Pairs Nb	4	2x4
AWG	23	23
Diameter (mm)	6.5	6.5 x 13.5
Weight (Kg/Km)	43	89
Conditioning	305m ; 500m & 1000m	500m & 1000m