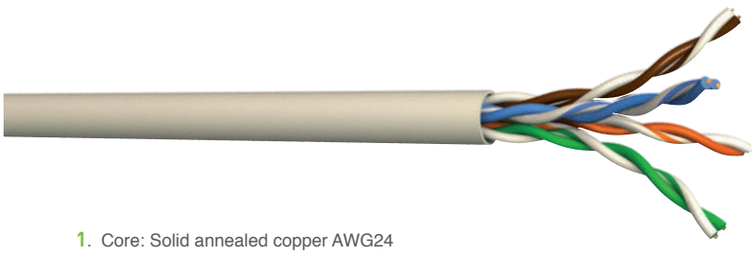
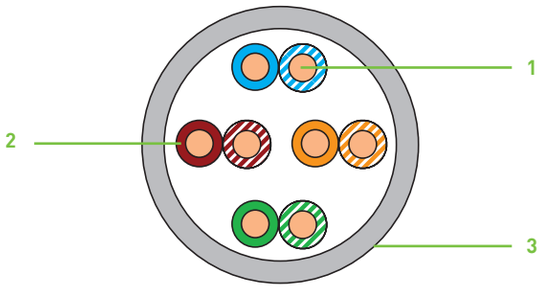
CATEGORY 5E CABLES - U/UTP



1. Core: Solid annealed copper AWG24
2. Insulation: High-density PE
3. Jacket: PVC or LSZH – Grey RAL 7035

VGB4



FEATURES AND BENEFITS

- Exceed CAT5e standard requirements

NETWORK APPLICATIONS

- ISDN - VoIP
- TOKEN RING 4/16 Mbits - 100 VG-AnyLAN
- TP-PMD/TP-DDI - ATM 155, 622,1200 Mbits
- ETHERNET: 10 Base T, 100 Base Tx, 100 Base T4, 1000 Base T

CABLING STANDARDS

- CABLE: - IEC 61156-5
  - EN 50288-3-1
- SYSTEM: - ISO/IEC 11801 Edition 2 – CLASS D
  - EN 50173 Edition 2 – CLASS D
  - EIA/TIA 568-B.2 CAT5e

TECHNICAL CHARACTERISTICS

- Linear resistance (max.): 94 Ω / Km
- Characteristic impedance: (from 1 to 100 MHz) 100 +/- 15 Ω
- Mutual capacity (nom.): 50 pF / m
- Nominal velocity propagation: 66 %
- Operating temperature: - 20° C / + 70°C
- Bending radius (min.): 8 x Cable diameter

F (MHz)	INSERTION LOSS (dB/100 m)		NEXT (dB/100 m)		ACR-N (dB/100 m)		PSNEXT (dB/100 m)		ACR-F (dB/100 m)		PSACR-F (dB/100 m)		RETURN LOSS (dB/100 m)	
	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C
1	2.0	**1.8**	65.3	**76**	63.3	**74**	62.3	**78**	63.8	**75**	60.8	**72**	20.0	**35**
4	4.1	**4.0**	56.3	**75**	52.2	**69**	53.3	**72**	51.8	**60**	48.8	**66**	23.0	**36**
10	6.5	**6.2**	50.3	**70**	43.8	**64**	47.3	**69**	43.8	**53**	40.8	**50**	25.0	**38**
16	8.2	**8.0**	47.2	**64**	39.1	**56**	44.2	**61**	39.7	**52**	36.7	**49**	25.0	**38**
20	9.3	**9.0**	45.8	**63**	36.5	**54**	42.0	**60**	37.8	**50**	34.8	**47**	25.0	**37**
25	10.4	**10.3**	44.3	**61**	33.9	**51**	41.3	**58**	35.8	**48**	32.8	**45**	24.3	**36**
31.25	11.7	**11.5**	42.9	**59**	31.2	**48**	39.9	**56**	33.9	**47**	30.9	**44**	23.6	**35**
62.5	17.0	**16.8**	38.4	**54**	21.4	**37**	35.4	**51**	27.9	**41**	24.9	**38**	21.5	**30**
100	22.0	**21.7**	35.3	**51**	13.3	**30**	32.3	**48**	23.8	**39**	20.8	**36**	20.1	**29**

ORDERING INFORMATION

Part Number	Pairs	Core Section	Shielding	Jacket	Outer Diameter	Weight	Packaging
VGB4	4	AWG24	U/UTP	PVC	5.5 mm	34 kg/km	B305M – 500M -1000M
VGB4SH	4	AWG24	U/UTP	LSZH	5.5 mm	34 kg/km	B305M -1000M
VGB8	2 x 4	AWG24	U/UTP	PVC	5.5 x 11 mm	68 kg/km	1000M
VGB8SH	2 x 4	AWG24	U/UTP	LSZH	5.5 x 11 mm	68 kg/km	1000M